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SUBSURFACE INVESTIGATION REPORT

11630-11700 Burke Street

Santa Fe Springs, CA 90670

Prepared for:

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Project No. 1576

December 18, 1995

ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000-A ORTEGA WAY
PLACENTIA, CA 92670-7125
714/632-8521

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1.0 INTRODUCTION

This report presents the results of subsurface investigation activities completed by Environmental Audit, Inc. (EAI) at the property identified as 11630-11700 Burke Street, Santa Fe Springs, California (Site) (see Figure 1).

Subsequent to completing work at the Site, EAI was provided with copies of two letters issued for the Site by the County of Los Angeles Fire Department, Health Hazardous Materials Division (County Fire) dated February 27, 1995 addressed to Mr. William Palley, and dated November 28, 1995 addressed to Mr. Larry Patsouras. Based on review of these letters, it is EAI's opinion that the areas of concern outlined in the County Fire letters were investigated by EAI.

1.1 BACKGROUND

In June 1994, AIG Consultants, Inc. (AIG) conducted a Phase I Environmental Site Assessment of the Site. The Site at that time was owned by Mr. William Palley. The Site is divided into two parcels, i.e., a west parcel and an east parcel. The west parcel was occupied by Talco Plastics, Inc. and the east parcel contained a warehouse that was vacant (see Figure 2). The purpose of the assessment was to identify any known or potential environmental problems at the Site. Based upon their investigation, AIG concluded that there was evidence of past activity at the Site which may represent environmental risks and/or liabilities. AIG recommended that additional investigation be performed to further evaluate the potential for impact to the environment (see AIG, 1994).

In August 1994, Professional Service Industries, Inc. (PSII) drilled and sampled eight borings (B-1 through B-8) and hand augered four borings (HA-1 through HA-4) at the Site (see Figure 2). The borings ranged in depth between 4.5 and 35 feet below ground surface (bgs). Total petroleum hydrocarbons, volatile organic compounds and metals were detected in soil samples collected and tested from the Site by PSII (see Tables 1 and 2, and PSII, 1994).

2.0 EAI INVESTIGATION

In November 1994, EAI was retained on behalf of Mr. Larry Patsouras, to conduct a subsurface investigation of the Site. At that time, Mr. Patsouras was interested in purchasing the Site. The purpose of the subsurface investigation was to attempt to define the extent of soil contamination encountered at the Site by PSII, and to determine whether ground water had been impacted. Based on the information contained in the AIG and PSII reports and EAI's walk-through inspection of the Site, the following areas of the Site were targeted by EAI for subsurface investigation (see Figure 2):

WEST PARCEL - Underground Storage Tanks (USTs)
Clarifiers (Historical Paint/Steam Cleaning Area)
Mechanical Pit
Maintenance Shop

EAST PARCEL - Storage Shed
Abandoned Clarifiers (filled with concrete)
Historical Stained Area

Between November and December 1994, EAI advanced 17 borings on the Site. Based on the results obtained from completing this work, EAI installed one ground water monitoring well on the Site in October 1995.

Appendix A contains a copy of EAI's Health and Safety Plan for completing work at the Site. The following outlines the work completed at the Site by EAI.

2.1 SOIL INVESTIGATION

Seventeen borings (E-1 through E-17) were advanced at the Site between November 29, 1994 and December 1, 1994 (see Figure 2). The borings were advanced by Drill International, under the supervision of EAI staff, using Geoprobe Systems subsurface sampling equipment which uses hydraulics to force a probe-drive sampler into the soil. Unlike split-spoon samplers used in hollow stem auger drilling, the probe-drive sampler (containing a plastic sample liner) remains sealed while it is pushed into the soil to the desired sampling depth. A piston stop-pin at the trailing end of the probe-drive sampler is removed by means of extension rods inserted down the inside diameter of the probe rods after the sampler has been driven to depth. This enables the piston to retract into the sample tube and liner as it is displaced by soil while the sample is being taken. The probe rods are then retracted from the hole to recover the soil sample contained in the sample liner. One benefit of this sampling technique is that no soil cuttings are generated. All borings were logged in accordance with the Unified Soil Classification System (see Appendix B).

The samples were collected from each boring using a single 1.375-inch diameter by 22-inch long plastic liner mounted within the probe-drive sampler. After sample recovery, the ends of the plastic liner containing the sample were covered with plastic caps and secured with tape. The samples were labeled with the sample point identification, EAI project number, depth interval, time and date, and immediately placed into an ice chest chilled using frozen blue ice. The samples were kept chilled until delivered to the laboratory for analytical testing. All samples were logged on chain-of-custody record forms (see Appendix C).

All borings were backfilled from termination depth to approximately four inches bgs using hydrated bentonite, and the remaining annular space sealed to the surface using asphalt or concrete.

A HNU Model DL-101 Photoionizer (PID) calibrated against an isobutene gas standard was used on the soil contained in the cutting shoe at the bottom of the probe-drive sampler, at each sampling interval within the borings, to determine if volatile hydrocarbon vapors were emanating directly from the soil. Each sample was placed in an air tight "Ziploc" plastic bag. The soil samples were allowed to sit in the sun and then the head space in the bags was analyzed using the PID. The results of this field testing are recorded on the boring logs (see Appendix B).

2.1.1 Equipment Decontamination

The extension rods and probe drive sampler were decontaminated between each boring by the following procedure:

- All excess soil was scraped off the rods.
- The rods were washed in a solution of Alconox detergent and tap water.
- The rods were rinsed with tap water.

2.1.2 Effluent Management

The effluent generated by the investigation was stored in one labeled 55-gallon drum.

2.1.3 West Parcel

Underground Storage Tanks

Four 25 foot deep borings (E-1 through E-4) were advanced around the perimeter of the area which contains two underground storage tanks (USTs), i.e., one 12,000-gallon diesel fuel and one 10,000-gallon unleaded gasoline (see Figures 2 and 3). It was reported that this area formerly contained a waste oil UST (see Figure 3). Soil samples were collected from each boring beginning at approximately five feet bgs and at approximately five foot intervals thereafter until termination. All samples were tested for total petroleum hydrocarbons (TPH), using a one to one ratio of gasoline and diesel fuel as the standard by modified EPA Method 8015, and benzene, toluene, xylenes and ethylbenzene (BTXE) by EPA Method 8020. Additionally, since boring E-1 was located near the area suspected to formerly contain a waste oil UST, the samples collected from this boring, between 10 feet bgs and termination depth, also were tested for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C.

Clarifiers (Historical Paint/Steam Cleaning Area)

One 20 foot deep boring (E-5) was advanced inside Building 2 near the former location of several clarifiers (see Figure 2). This area and the area immediately south and outside of Building 2 (see boring location E-6) also reportedly were used as paint and steam cleaning areas. Information contained in regulatory agency files indicated that Globe Oil Tool Company had used these areas for both painting and steam cleaning, and that Palley Supply Company (PSC) had conducted steam cleaning operations in the area. Soil samples were collected from each boring at five feet bgs and at approximately five-foot intervals thereafter until termination. The samples were tested for TRPH and volatile organic compounds (VOCs) by EPA Method 8240. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C.

Mechanical Pit

One 10 foot deep boring (E-16) was advanced in Building 3 at the location of the mechanical pit (see Figure 2). Soil samples were collected from the boring at five feet and 10 feet bgs. The samples were tested for TRPH and VOCs. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C.

Maintenance Shop

One 20 foot deep boring (E-17) was advanced in the area of the Talco maintenance shop located by Building 1 (see Figure 2). Soil samples were collected from the boring at five feet bgs and at approximately five-foot intervals thereafter until termination. The samples were tested for TRPH and VOCs. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C. Sample E-17 @ 20' also was tested for carbon chain breakdown.

2.1.4 East Parcel

Storage Shed

One 20 foot deep boring (E-8), one 30 foot deep boring (E-9) and one 15 foot deep boring (E-11) were advanced in the area of the storage shed (see Figure 2). This storage shed had historically been used as a maintenance structure by PSC. Soil samples were collected from each boring at five feet bgs and at approximately five-foot intervals thereafter until termination. The samples were tested for TRPH and VOCs. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C. Since sample E-9 @ 15'-16' contained the highest TRPH concentration (33,000 parts per million [ppm]) detected in any sample collected from the Site by EAI, carbon chain breakdown analysis also was completed on this sample (see Figure 4).

Abandoned Clarifiers

Two 45 foot deep borings (E-14 and E-15) were advanced in the area north of the northern most abandoned clarifier (see Figure 2). Soil samples were collected from each boring at five feet bgs and at approximately five-foot intervals thereafter until termination. The samples were tested for TRPH and VOCs. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C.

Historical Stained Area

Two 20 foot deep borings (E-10 and E-12) were advanced in this area of the Site (see Figure 2). Four attempts were made to advance boring E-13, however, refusal was encountered at each location (see Figure 2). Soil samples were collected from borings E-10 and E-12 at five feet bgs and at approximately five-foot intervals thereafter until termination. The samples were tested for TRPH and VOCs. The results of the testing are shown on Table 1. The laboratory reports are contained in Appendix C.

2.2 GROUND WATER INVESTIGATION

In or about September 1995, EAI was contacted by Mr. Larry Patsouras and informed that he had become the new owner of the Site. Mr. Patsouras requested that EAI conduct a limited assessment of ground water quality beneath the Site.

On October 3, 1995, one 55-foot deep boring (boring MW-1) was drilled and sampled on the Site (see Figure 2). The boring was located in this area based on the fact that the highest levels of chlorinated constituents in soil were detected in this area of the Site. The boring was drilled by ABC Liovin Drilling, a state licensed C57 Water Well Driller, under the supervision

of EAI staff. The boring was drilled using eight-inch outside diameter continuous flight hollow stem augers. The boring was logged in accordance with the Unified Soil Classification System (see Appendix B). Ground water was encountered during drilling at approximately 40 feet bgs.

Soil samples were obtained from the boring at five foot intervals. The soil samples were collected using a split-spoon drive sampler (lined with sample tubes) employed in advance of the augers. The recovered soil samples were screened in the field for the presence of volatile hydrocarbon vapors using a TLV Sniffer. Each sample was placed into an air tight "Ziploc" plastic bag. The samples were allowed to sit in the sun and then the head space in the bags was analyzed. The results of this field testing were record on the boring log (see Appendix B). No laboratory testing of soil samples was authorized as part of this investigation.

2.2.1 Well Construction

Boring MW-1 was converted into two-inch diameter ground water monitoring well MW-1 (see Figure 2). The well was constructed of Schedule 40 polyvinyl chloride (PVC) well casing. Appendix D contains a copy of the well construction permit issued by the County of Los Angeles Department of Health Services. The well was designed with a slotted section (0.02-inch x 1-inch slots) which extends between 33 and 53 feet bgs. A two-inch diameter flushed threaded PVC end cap was placed on the lower end of the slotted casing. The annular space between the borehole wall and well casing was backfilled with sand to approximately four feet above the slotted casing. A three foot layer of bentonite was placed on top of the sand pack, and the remaining annular space grouted using a cement/bentonite slurry. A flush mounted traffic grate was placed on top of the well. Appendix E contains the specific well construction details.

2.2.2 Well Development

The well was developed on October 5, 1995. Prior to development the depth to ground water in the well was measured at approximately 35 feet below the top of the well casing. Development activities consisted of removing approximately 100 gallons of ground water from the well. Development activities ceased at approximately 11:05 AM.

2.2.3 Ground Water Sampling

The well was sampled on October 5, 1995. Prior to purging, the depth to ground water in the well was measured at 35.83 feet below the top of the well casing. Prior to sampling, the well was purged of approximately 10 well casing volumes of water using a Whale Supersub 920 submersible pump. Temperature, conductivity, turbidity and pH readings were recorded to evaluate the effectiveness of purging activities, and to determine when to collect the ground water sample (see Appendix F). After purging, the depth to ground water in the well was measured at 35.90 feet below the top of the well casing.

A ground water sample was collected from just below the ground water surface using a Voss Technologies' disposable bottom bailer equipped with a VOC sampling tip. The water sample was sealed in three 40-milliliter amber VOA vials with Teflon septa lined lids and one 1-liter amber glass bottle. Each VOA vial was completely filled so that no head space existed between the sample and the lid. The water sample was labeled, handled and transported as described in Section 2.1.

2.2.4 Equipment Decontamination

Clean auger sections were used to advance the boring. The submersible pump and hose system (equipment) used only to develop and purge the well, was decontaminated between each event using the following procedure:

- The equipment was washed and flushed in a solution of Alconox detergent and tap water; and
- The equipment was double-flushed with tap water.

2.2.5 Effluent Management

All effluent generated by the investigation was stored in labeled 55-gallon drums.

3.0 ANALYTICAL TESTING

All analytical testing was completed by Calscience Environmental Laboratories, Inc. (CEL), a state certified hazardous waste testing laboratory. CEL is certified for all tests completed as part of this investigation.

3.1 SOIL SAMPLES

Selected soil samples were tested for TPH (using a one to one ratio of gasoline and diesel fuel as the standard) by modified EPA Method 8015, carbon chain breakdown by modified EPA Method 8015, TRPH by EPA Method 418.1, BTXE by EPA Method 8020, and VOCs by EPA Method 8240. Table 1 contains the results of the testing. Appendix C contains the laboratory reports.

3.2 GROUND WATER SAMPLE

The ground water sample was tested for TRPH by EPA Method 418.1, Title 22 metals by EPA Methods 200.7 and 245.1 (the sample was not filtered in the field or by the laboratory prior to testing), and VOCs by EPA Method 624. Table 3 contains the results of the testing. Appendix C contains the laboratory reports.

4.0 ENVIRONMENTAL SETTING

4.1 GENERAL GEOLOGY

The Site is located within the central block of the Los Angeles Basin. The topographic surface expression of the central block includes an alluviated low land plain known as the Downey Plain which is bounded on the northwest by the Santa Monica Mountains, the Elysian and Repetto Hills to the north, the Puente Hills on the northeast and east, the Santa Ana Mountains

to the south, the San Joaquin Hills to the southwest and the associated hills of the Newport-Inglewood fault zone to the west.

The Downey Plain is approximately 32 miles long and 4.5 to 8.5 miles wide and extends inland through several passes and to the ocean through several gaps. It was formed by the coalescing of alluvial fans of the Los Angeles, San Gabriel and Santa Ana Rivers. The resulting topography is subdued, with the surface slope of the Downey Plain varying from seven to 23 feet per mile (DWR, 1988). The alluvial fans are of Quaternary age, consisting of silt, sand, gravel and clay up to 175 feet thick (Poland, 1965).

Beneath the recent alluvial fans lie Pleistocene deposits which consist of interfingered beds of sand, gravel, silt and clay. They range in thickness from 200 to 1,000 feet along the coast, and 29 to 900 feet within the Newport-Inglewood fault zone and attain a maximum thickness of approximately 3,000 feet beneath the central part of the Downey Plain. The majority of these deposits are fluvial in origin except the earlier deposits which are largely composed of sands and gravel of marine and litoral origin.

Thick sequences of consolidated mainly marine sediments unconformably underlie the unconsolidated sediments of Quaternary age. These sediments were deposited from late Cretaceous to late Pliocene and represent a regional subsidence of the area. As much as 30,000 feet of sediment is thought to have been deposited in the central block of the Los Angeles Basin.

In the area of the Site, the underlying Quaternary deposits of concern are the alluvial deposits of the Lakewood formation of late Pleistocene age. The Lakewood formation consist of continuous coarse grained sand and gravel zones with some lenses of clay and sandy silt in the basal portion of the unit. The upper portion consists of discontinuous permeable zones with considerable variation of grain size typical of alluvial and flood plain deposits (DWR, 1965).

4.2 SITE SPECIFIC GEOLOGY

Appendix B contains the logs for borings advanced on the Site by EAI. The following is a generalized discussion of the soil stratigraphy encountered.

Asphalt and or concrete covers most of the Site. Clayey silt, silty clay and clay are present at depths ranging between approximately one and 15 feet bgs. Coarse sand with some gravel is present between depths of approximately 15 and 30 feet bgs. In boring MW-1 (which was converted into well MW-1), a silty clay layer was encountered at approximately 34 feet bgs. Sand was encountered at approximately 40 feet bgs. Clay was encountered at approximately 45 feet bgs, followed by sand to the maximum depth explored of 55 feet bgs. Ground water was encountered during the drilling of well MW-1 at a depth of approximately 40 feet bgs.

4.3 HYDROGEOLOGY

The ground water basin over which the Site is located is known as the Montebello fore bay area of the Downey Plain central basin. The fore bay area generally consist of unconfined ground water conditions and is one of the areas that contribute to the recharge of the basin, both from surface waters and subsurface flow from adjoining ground water basins.

The ground water generally moves in a westerly and southwesterly direction from the fore bay area into the central basin pressure area. Locally, however, the ground water may be reversed due to large quantities of ground water being extracted from water wells (DWR, 1965). There is little subsurface outflow from the central basin because most of the ground water in this region moves to a series of pumping troughs along the Newport-Inglewood uplift.

The principal body of water beneath the Downey Plain occupies the lower division of alluvial deposits of Recent age, all of the Pleistocene age, and a large portion of the Pico formation of upper Pleistocene age. The base of this ground water body lies approximately 800 to 2,600 feet below mean sea level (MSL) along the Newport-Inglewood fault zone and as much as 8,000 feet below MSL beneath the central part of the Downey Plain (Poland, 1965).

Twelve water bearing aquifers have been identified in the central basin within Los Angeles County. Six of these aquifers appear to be present beneath the Site; they include: the Artesia aquifer; Hollydale aquifer; Jefferson aquifer; Lynwood aquifer; Silverado aquifer; and Sunnyside aquifer.

The level to static ground water in well MW-1 located on the Site was approximately 35 feet bgs in October 1995.

5.0 CHEMICALS ENCOUNTERED

5.1 SOIL

Hydrocarbons

Testing for different types of hydrocarbons was conducted by PSII and EAI using various EPA testing methods, i.e., TRPH by EPA Method 418.1, TPH and carbon chain analysis by modified EPA Method 8015, BTXE by EPA Method 8020, and VOCs by EPA Methods 8260 and 8240. The highest concentrations of hydrocarbons detected in soil samples collected from the Site as of this date are:

	HYDROCARBON	SAMPLE ID #	CONCENTRATION (PPM)
	TRPH	E-9 @ 15-16'	33,000
	Acetone	B-7 @ 10'	0.24 240 PPB
150	Toluene	E-9 @ 10-11'	1.45 1450 PPB
1750	Xylenes	E-9 @ 10-11'	3.37 3370 PPB
730	Ethylbenzene	E-9 @ 10-11'	0.384 384 PPB
5	Tetrachloroethene (PCE)	B-7 @ 25'	0.51 510 PPB
2650	Trichloroethene (TCE)	B-7 @ 10'	0.23 730 PPB
190	Trichlorofluoromethane	E-9 @ 10-11'	0.033 33 PPB
	Methylene Chloride (1)	B-7 @ 20'	0.016 16 PPB
	n-Butylbenzene	B-7 @ 10'	0.52 520 PPB

(1) PSII attributed the presence of methylene chloride in their samples to laboratory contamination.

HYDROCARBON	SAMPLE ID #	CONCENTRATION (PPM)
n-Propylbenzene	B-7 @ 10'	0.15
Napthalene	B-7 @ 10'	0.19
p-isophropyltoluene	B-7 @ 10'	0.57
sec-Butylbenzene	B-7 @ 10'	0.22
2-Butanone	B-8 @ 2'	0.027
1,2,3-Trichloropropane	B-7 @ 10'	0.033
1,2,4-Trimethylbenzene	B-7 @ 10'	1.6
1,3,5-Trimethylbenzene	B-7 @ 10'	0.23

Note that PSII tested samples for TPH by modified EPA Method 8015 using gasoline, kerosene, mineral spirits, diesel fuel and lubrication oil as standards. PSII reported that all the hydrocarbons detected in samples using this test method were in the lubrication oil range. Therefore, for purposes of this report, EAI classified these testing results under the TRPH category.

The soil sample with the highest TRPH concentration (E-9 @ 15-16') was subjected to carbon chain breakdown analysis (see Figure 4). The results of this testing show that the dominant carbon chain range is C17 to C32, i.e., longer chained heavier-end hydrocarbons, which is consistent with the TRPH and TPH testing results.

Metals

PSII tested selected soil samples for California Code of Regulations, Title 22, metals (see Table 2). Title 22 contains standards for total threshold limit concentrations (TTLCs) and soluble threshold limit concentrations (STLCs). These standards are used to determine whether a waste is hazardous.

No total metal concentrations were detected at or above the TTLC standards contained in Title 22. Total arsenic was detected in two soil samples (B-1 @ 2' at 55 ppm and B-7 @ 35' at 50 ppm) at or above the 5 ppm STLC standard for arsenic, and total chromium was detected in one soil sample (B-8 @ 2') above the 5 ppm STLC standard for chromium. As a general guideline, if a total metal concentration is detected in a waste at a level equal to or greater than 10 times its respective STLC standard, testing to determine the soluble metal concentration by the Waste Extraction Test (WET) should be completed.

Assuming the soil were a waste, the WET should be conducted on samples B-1 @ 2' and B-7 @ 35' for arsenic and sample B-8 @ 2' for chromium. However, it is important to recognize that: 1) the TTLC and STLC standards contained in Title 22 are not cleanup levels; 2) the WET is designed to simulate conditions that a waste would typically encountered in a landfill, i.e., acid conditions; and 3) acid conditions probably are not present in Site soils. For these reasons, it is EAI's opinion that testing for soluble arsenic and chromium is not warranted and that the metal concentrations encountered in soil samples collected from the Site are not problematic.

5.2 GROUND WATER

The discussion which follows is based on a one time sampling of well MW-1 located on the Site. Typically, a time series of data from several wells should be obtained in order to determine the presence, concentration, and distribution of contaminants in ground water. Therefore, caution must be used in interpreting the results obtained from sampling well MW-1 in October 1995.

Hydrocarbons

The ground water sample collected from well MW-1 by EAI in October 1995 was tested for TRPH and VOCs. The hydrocarbons detected in the sample are as follows:

HYDROCARBON	MW-1 (ppb)	ACTION LEVEL (ppb)
TRPH	ND	NS
Chloroform	1.9	100
1,1-Dichloroethene	2.2	6
Tetrachloroethene (PCE)	158	5
1,1,1-Trichloroethane	1.4	200
Trichloroethene (TCE)	7.4	5

The action level is based on California's primary maximum contaminant levels (MCLs) for drinking water. Only the VOCs which were detected by EPA Method 624 are listed above. PCE and TCE were detected at concentrations above their respective MCLs for drinking water.

Metals

The ground water sample collected from well MW-1 by EAI in October 1995 was tested for Title 22 metals. The metals detected in the sample are as follows:

METAL	MW-1 (ppb)	ACTION LEVEL (ppb)
Barium	380	1,000
Chromium	60	50
Vanadium	70	NS
Zinc	90	5,000*

NS = No established action level.
* Secondary MCL.

Chromium was detected above its MCL. However, it is important to recognize that the ground water sample was not filtered in the field or by the laboratory prior to testing. Therefore, the accuracy of the metals testing results is questionable. A filtered sample should be tested to determine the metal concentrations in ground water.

6.0 DISCUSSION AND CONCLUSIONS

6.1 WEST PARCEL

Underground Storage Tanks

No TPH, benzene, xylenes or ethylbenzene were detected in any of the soil samples collected from the four EAI borings (borings E-1 through E-4) advanced around the perimeter of the USTs. TRPH concentrations ranging from two to 32 ppm were detected in all of the soil samples collected and tested from boring E-1 between nine and 26 feet bgs. Boring E-1 was located between the existing USTs and the area reported to formerly contain a waste oil UST. Toluene was detected in only one sample at 0.048 ppm.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

Clarifiers (Historical Paint/Steam Cleaning Area)

No VOCs were detected in any soil samples collected from this area of the Site by PSII and EAI. TRPH were detected in two soil samples collected by EAI at 11 ppm. Various metals were detected in the soil samples collected by PSII from this area of the Site. However, none of the concentrations detected meet or exceed 10 times the STLC values contained in Title 22 for these metals.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

Mechanical Pit

No VOCs were detected in the soil samples collected from the EAI boring advanced in this area of the Site. TRPH were detected at 16 ppm in the soil sample collected from five feet bgs and at 9 ppm in the soil sample collected from 10 feet bgs.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

Maintenance Shop

No VOCs were detected in any soil samples collected from this area of the Site by PSII and EAI. TRPH were detected in all samples collected from this area of the Site at concentrations ranging between 6 and 98 ppm. No metals at concentrations equal to or greater than 10 times the STLC values contained in Title 22 were detected in the one sample collected and tested for metals from this area of the Site.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

Equipment Storage

No TPH or VOCs were detected in the soil sample collected from two feet bgs in this area of the Site by PSII. No metals at concentration equal to or greater than 10 times the STLC values contained in Title 22 were detected in the one sample collected and tested for metals from this area of the Site.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

6.2 EAST PARCEL

Storage Shed

No TPH or VOCs were detected in the soil samples collected from the three EAI borings (borings E-8, E-9 and E-11) advanced in this area of the Site. TRPH were detected at concentrations ranging from 1,350 to 33,000 ppm, with a 10,900 ppm concentration present in the deepest sample (31 feet bgs) collected from this area of the Site. Toluene, xylenes, ethylbenzene, PCE and TCE were detected in samples collected from boring E-9.

Based on the analytical information contained herein, it is EAI's opinion that soil remediation is required in this area of the Site.

Abandoned Clarifiers

TRPH concentrations ranging between 11.7 and 31,300 ppm were detected in the soil samples collected from PSII boring B-7. PCE ranging in concentration from 0.027 to 0.510 ppm and TCE ranging in concentration from 0.061 to 0.23 ppm also were detected in soil samples from boring B-7. No VOCs were detected in any of the soil samples collected by EAI from this area of the Site. TRPH concentrations detected in samples collected by EAI ranged from six to 2,710 ppm.

Based on the analytical information contained herein, it is EAI's opinion that soil remediation is required in this area of the Site.

Historical Stained Area

A TRPH concentration of 1,440 ppm was detected in the soil sample collected by PSII at two feet bgs from this area of the Site. No VOCs were detected in this sample. No VOCs were detected in any of the soil samples collected from the two 20-foot deep borings drilled by EAI in this area of the Site. A TRPH concentration of 10 ppm was detected in only one soil sample (E-10 @ 5-6') collected from this area of the Site by EAI.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

Paved Asphalt Area

No VOCs or TRPH were detected in the soil samples collected from the two PSII borings drilled in this area of the Site.

Based on the analytical information contained herein, it is EAI's opinion that no soil remediation is required in this area of the Site.

6.3 GROUND WATER

No TRPH were detected in the ground water sample tested. Barium (380 ppb), chromium (60 ppb), vanadium (70 ppb) and zinc (90 ppb) were the only metals detected. Chloroform (1.9 ppb), 1,1-Dichloroethene (2.2 ppb), PCE (158 ppb), 1,1,1-Trichloroethane (1.4 ppb), and TCE (7.4 ppb) were the only VOCs detected.

The chromium (unfiltered sample), PCE and TCE concentrations detected in the ground water sample tested all exceed the MCLs established for these constituents in drinking water. Chromium, PCE and TCE have all been detected in soil samples collected from the Site (East Parcel). The highest concentrations of these constituents detected in soil samples collected from the Site as of this date, based on information available to EAI, are as follows:

ANALYTE	SAMPLE ID #	CONCENTRATION (ppb)
Chromium	B-1 @ 2'	45,000
PCE	B-7 @ 25'	510
TCE	B-7 @ 10'	230

The extent of ground water contamination associated with the Site has not been defined.

7.0 RECOMMENDATIONS

7.1 SOIL REMEDIATION

EAI recommends that a plan to remediate the impacted soils at the storage shed and abandoned clarifiers associated with the East Parcel be prepared. Since the soil contamination (unsaturated zone) appears to be confined to these two areas of the Site, soil remediation can be implemented prior to or along with the additional work required to define the extent of ground water contamination. The remedial action plan (RAP) should provide proposed cleanup levels (including justification for the cleanup levels), evaluate possible remedial options, and select a remedial option. The Plan should be submitted to County Fire for their review and approval, prior to implementation.

7.2 GROUND WATER INVESTIGATION

EAI recommends that a Work Plan for additional ground water assessment activities be prepared and submitted to County Fire for their review and approval. The Work Plan should outline the additional assessment activities proposed to define the extent of ground water contamination associated with the Site. The Work Plan should also discuss and locate other sites in close proximity to the Site known or suspected to have ground water contamination, and the potential, if any, for these sites to impact the Site.

8.0 LIMITATION

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. This report has been prepared for Mr. Larry Patsouras. The conclusions and recommendations included in this report are based on information contained or referenced herein, and our best judgment. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

This report has not been prepared for use by other parties and may not contain sufficient information for purposes of other parties or other uses. EAI consents to the release of this report to third parties at its discretion. However, any use or reliance upon this information by a party other than Mr. Larry Patsouras shall be solely at the risk of such third party and without legal recourse against EAI, its employees, officers or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of EAI), statute or otherwise. This report shall not be used or relied upon by a third party which does not agree to be bound by the above statement.

Respectfully submitted,

ENVIRONMENTAL AUDIT, INC.

Edward H. Leonhardt, RCE, REA
Manager, Civil Engineering

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STEVEN A. BRIGHT
No. 5128
Expires: 2-1-98
REP

9.0 REFERENCES CITED

AIG Consultant, Inc., "Phase I Environmental Site Assessment, Industrial Buildings, 11630-11700 Burke Street, Santa Fe Springs, California 90670", dated June 30, 1994 (AIG, 1994).

Professional Service Industries, Inc., "Phase II Preliminary Contamination Assessment, 11630-11700 Burke Street, Santa Fe Springs, California", dated August 18, 1994 (PSI, 1994).

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Poland, J.F, Piper, A.M., and Others, 1965, "Ground-Water Geology of the Coastal Zone Long Beach-Santa Ana Area," California Survey Paper 1109 (Poland, 1965).

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SAB:EHL:BHM:sh

SAB:WORD:1576-SIR

TABLES

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE
WEST PARCEL - UNDERGROUND STORAGE TANKS							
EAI Borings (1)							
E-1 @ 4-6'	ND	NA	ND	ND	ND	NA	NA
E-1 @ 9-11'	ND	2	ND	ND	ND	NA	NA
E-1 @ 14-16'	ND	32	0.048	ND	ND	NA	NA
E-1 @ 19-21'	ND	9	ND	ND	ND	NA	NA
E-1 @ 24-26'	ND	15	ND	ND	ND	NA	NA
E-2 @ 4-6'	ND	NA	ND	ND	ND	NA	NA
E-2 @ 9-11'	ND	NA	ND	ND	ND	NA	NA
E-2 @ 14-16'	ND	NA	ND	ND	ND	NA	NA
E-2 @ 19-21'	ND	NA	ND	ND	ND	NA	NA
E-2 @ 24-26'	ND	NA	ND	ND	ND	NA	NA
E-3 @ 4-6'	ND	NA	ND	ND	ND	NA	NA
E-3 @ 9-11'	ND	NA	ND	ND	ND	NA	NA
E-3 @ 14-16'	ND	NA	ND	ND	ND	NA	NA
E-3 @ 19-21'	ND	NA	ND	ND	ND	NA	NA
E-3 @ 24-26'	ND	NA	ND	ND	ND	NA	NA
E-4 @ 4-6'	ND	NA	ND	ND	ND	NA	NA
E-4 @ 9-11'	ND	NA	ND	ND	ND	NA	NA
E-4 @ 14-16'	ND	NA	ND	ND	ND	NA	NA
E-4 @ 19-21'	ND	NA	ND	ND	ND	NA	NA
E-4 @ 24-26'	ND	NA	ND	ND	ND	NA	NA
WEST PARCEL - CLARIFIERS (Historical Paint/Steam Cleaning Areas)							
PSII Borings (2)							
HA-2 @ 10'	NA	ND	ND	ND	ND	ND	ND
HA-3 @ 4.5'	NA	ND	ND	ND	ND	ND	ND

SEE PAGES 5 AND 6 FOR FOOTNOTES

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE
EAI Borings							
E-5 @ 4-6'	NA	ND	ND	ND	ND	ND	ND
E-5 @ 9-11'	NA	ND	ND	ND	ND	ND	ND
E-5 @ 14-16'	NA	ND	ND	ND	ND	ND	ND
E-5 @ 19-21'	NA	11	ND	ND	ND	ND	ND
E-6 @ 4-6'	NA	11	ND	ND	ND	ND	ND
E-6 @ 9-11'	NA	ND	ND	ND	ND	ND	ND
E-6 @ 14-16'	NA	ND	ND	ND	ND	ND	ND
E-6 @ 19-21'	NA	ND	ND	ND	ND	ND	ND
E-6 @ 24-26'	NA	ND	ND	ND	ND	ND	ND
WEST PARCEL - MECHANICAL PIT							
EAI Boring							
E-16 @ 5'	NA	16	ND	ND	ND	ND	ND
E-16 @ 10'	NA	9	ND	ND	ND	ND	ND
WEST PARCEL - MAINTENANCE SHOP							
PSII Boring							
B-5 @ 4'	NA	11.7	ND	ND	ND	ND	ND
EAI Boring							
E-17 @ 5'	NA	9	ND	ND	ND	ND	ND
E-17 @ 10'	NA	13	ND	ND	ND	ND	ND
E-17 @ 15'	NA	6	ND	ND	ND	ND	ND
E-17 @ 20'	NA	(3) 98	ND	ND	ND	ND	ND

SEE PAGES 5 AND 6 FOR FOOTNOTES

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE
WEST PARCEL - EQUIPMENT STORAGE							
PSII Boring							
HA-4 @ 2'	NA	ND	ND	ND	ND	ND	ND
EAST PARCEL - STORAGE SHED							
PSII Boring							
HA-1 @ 2'	NA	30,000	ND	ND	ND	ND	ND
EAI Borings							
E-8 @ 5-6'	NA	ND	ND	ND	ND	ND	ND
E-8 @ 10-11'	NA	ND	ND	ND	ND	ND	ND
E-8 @ 15-16'	NA	ND	ND	ND	ND	ND	ND
E-8 @ 20-21'	NA	ND	ND	ND	ND	ND	ND
E-9 @ 5-6'	NA	1,350	ND	0.025	ND	ND	ND
E-9 @ 10-11'	NA	18,900	1.45	3.37	0.384	0.061	ND
E-9 @ 15-16'	NA	33,000 (4)	1.09	2.61	0.287	0.042	0.023
E-9 @ 20-21'	NA	16,500	0.017	0.063	0.008	0.059	ND
E-9 @ 24-25'	NA	15,600	ND	ND	ND	0.092	ND
E-9 @ 30-31'	NA	10,900	ND	ND	ND	0.104	ND
E-11 @ 5-6'	NA	ND	ND	ND	ND	ND	ND
E-11 @ 10-11'	NA	ND	ND	ND	ND	ND	ND
E-11 @ 15-16'	NA	ND	ND	ND	ND	ND	ND
EAST PARCEL - ABANDONED CLARIFIERS							
PSII Borings							
B-6 @ 10'	NA	ND	ND	ND	ND	ND	ND

SEE PAGES 5 AND 6 FOR FOOTNOTES

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE
B-7 @ 10'	NA	31,300	ND	0.040	ND	0.027	0.230
B-7 @ 15'	NA	12,330	ND	ND	ND	0.270	0.061
B-7 @ 25'	NA	18,380	0.001	ND	ND	0.510	0.072
B-7 @ 35'	NA	11.7	ND	ND	ND	ND	ND
EAI Borings							
E-7 @ 0-1'	NA	2,710	ND	ND	ND	ND	ND
E-7 @ 7-8'	NA	82	ND	ND	ND	ND	ND
E-7 @ 15-16'	NA	ND	ND	ND	ND	ND	ND
E-7 @ 23-24'	NA	ND	ND	ND	ND	ND	ND
E-7 @ 31-32'	NA	ND	ND	ND	ND	ND	ND
E-7 @ 39-40'	NA	13	ND	ND	ND	ND	ND
E-7 @ 44-45'	NA	ND	ND	ND	ND	ND	ND
E-14 @ 5'	NA	23	ND	ND	ND	ND	ND
E-14 @ 10'	NA	16	ND	ND	ND	ND	ND
E-14 @ 15'	NA	16	ND	ND	ND	ND	ND
E-14 @ 20'	NA	11	ND	ND	ND	ND	ND
E-14 @ 25'	NA	23	ND	ND	ND	ND	ND
E-14 @ 30'	NA	18	ND	ND	ND	ND	ND
E-14 @ 35'	NA	18	ND	ND	ND	ND	ND
E-14 @ 40'	NA	25	ND	ND	ND	ND	ND
E-14 @ 45'	NA	23	ND	ND	ND	ND	ND
E-15 @ 5'	NA	13	ND	ND	ND	ND	ND
E-15 @ 10'	NA	16	ND	ND	ND	ND	ND
E-15 @ 15'	NA	13	ND	ND	ND	ND	ND
E-15 @ 20'	NA	ND	ND	ND	ND	ND	ND
E-15 @ 25'	NA	18	ND	ND	ND	ND	ND
E-15 @ 30'	NA	9	ND	ND	ND	ND	ND
E-15 @ 35'	NA	ND	ND	ND	ND	ND	ND
E-15 @ 40'	NA	6	ND	ND	ND	ND	ND
E-15 @ 45'	NA	ND	ND	ND	ND	ND	ND

SEE PAGES 5 AND 6 FOR FOOTNOTES

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE
EAST PARCEL - HISTORICAL STAINED AREA							
PSII Boring							
B-8 @ 2'	NA	1,440	ND	ND	ND	ND	ND
EAI Borings							
E-10 @ 5-6'	NA	10	ND	ND	ND	ND	ND
E-10 @ 10-11'	NA	ND	ND	ND	ND	ND	ND
E-10 @ 15-16'	NA	ND	ND	ND	ND	ND	ND
E-10 @ 20-21'	NA	ND	ND	ND	ND	ND	ND
E-12 @ 5-6'	NA	ND	ND	ND	ND	ND	ND
E-12 @ 10-11'	NA	ND	ND	ND	ND	ND	ND
E-12 @ 15-16'	NA	ND	ND	ND	ND	ND	ND
E-12 @ 20-21'	NA	ND	ND	ND	ND	ND	ND
EAST PARCEL - PAVED ASPHALT AREA							
PSII Borings							
B-1 @ 2'	NA	ND	ND	ND	ND	ND	ND
B-2 @ 2'	NA	ND	ND	ND	ND	ND	ND
B-3 @ 2'	NA	ND	ND	ND	ND	ND	ND
B-4 @ 2'	NA	ND	ND	ND	ND	ND	ND

(1) = EAI samples were tested for TPH by modified EPA Method 8015 using a one to one ratio of gasoline to diesel fuel as the standard, TRPH by EPA Method 418.1, BTXE by EPA Method 8020, and VOCs by EPA Method 8240. Trichlorofluoromethane was detected in sample E-9 @ 10-11' at 0.033 ppm.

(2) = All PSII samples were tested for VOCs by EPA Method 8260. Methylene chloride was detected in all samples at low concentrations. The presence of methylene chloride was attributed to laboratory contamination. Acetone, isopropylbenzene, n-butylbenzene, n-propylbenzene, napthalene, p-isophropyltoluene, sec-butylbenzene, chloroform, 2-butanone and 1,2,3-trichloropropane were detected in selected samples at low concentrations. PSII tested the samples for total petroleum hydrocarbons by modified EPA Method 8015. We listed these results under TRPH since the laboratory reported that these hydrocarbons were lubricating oil. See the PSII report dated August 18, 1994 for specifics.

TABLE 1

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - HYDROCARBONS

Parts per Million (ppm)

SAMPLE I.D.	TPH	TRPH	T	X	EB	PCE	TCE

(3) = See Appendix C for carbon chain breakdown results

(4) = See Figure 4 for carbon chain breakdown results

NA = Not analyzed.
ND = Not detected.
TPH = Total petroleum hydrocarbons by modified EPA Method 8015 using a 1:1 ratio of gasoline and diesel fuel as the standard.
TRPH = Total recoverable hydrocarbons by EPA Method 418.1.
T = Toluene.
X = Total Xylenes.
EB = Ethylbenzene.
PCE = Tetrachloroethene.
TCE = Trichloroethene.

SAB:WORD:1576T1

TABLE 2

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - METALS

Parts per Million (ppm)

SAMLE ID	An	As	Ba	Be	Ca	Cr	Co	Cu	Pb	Mo	Hg	Ni	Se	Ag	Tl	V	Zn
STLC	15	5	100	0.75	1	5	80	25	5	350	0.2	20	1	5	7	24	250
TTLC	500	500	10000	75	100	500	8000	2500	1000	3500	20	2000	100	500	700	2400	5000
WEST PARCEL - CLARIFIERS (Historical Paint/Steam Cleaning Areas)																	
HA-2@10'	ND	ND	117	0.8	ND	28.7	14.4	28.1	19	ND	ND	ND	ND	ND	ND	51.7	58.7
HA-3@4.5	ND	ND	191	1.1	ND	40.8	17.8	31.1	26	1.9	0.05	23.4	ND	ND	ND	65.9	121
WEST PARCEL - MAINTENANCE SHOP																	
B-5@4'	ND	32	119	0.7	ND	21.6	12.2	18.5	15	ND	ND	14.8	ND	ND	ND	41.4	46.4
WEST PARCEL - EQUIPMENT STORAGE																	
HA-4@2'	ND	ND	112	0.8	ND	24	13.1	17.2	16	ND	ND	14.7	ND	ND	ND	46.3	51
EAST PARCEL - STORAGE SHED																	
HA-1@2'	ND	ND	111	0.6	ND	26.8	12.6	18.1	28	ND	0.02	13.1	ND	ND	ND	31.1	56.4
EAST PARCEL - ABANDONED CLARIFIERS																	
B-6@10'	ND	43	224	0.8	ND	36.6	17.4	31.5	26	ND	0.04	24.5	ND	0.4	ND	62.1	66.7
B-7@10'	ND	29	193	0.7	ND	30.7	15.4	39.1	22	ND	ND	22.9	ND	ND	ND	47.5	87.6
B-7@15'	ND	ND	54.9	0.4	ND	9.4	5.3	12.1	ND	ND	ND	7.0	ND	ND	ND	18.8	27.2
B-7@25'	ND	ND	43.2	0.2	ND	7.8	4.4	15	6	ND	ND	6	ND	ND	ND	16.7	27
B-7@35'	ND	50	188	0.9	ND	30.4	19.4	44.3	27	ND	0.09	25.5	ND	0.3	ND	67.9	83.2

TABLE 2

SUMMARY OF ANALYTICAL TESTING RESULTS
SOIL SAMPLES - METALS

Parts per Million (ppm)

SAMLE ID	An	As	Ba	Be	Ca	Cr	Co	Cu	Pb	Mo	Hg	Ni	Se	Ag	Tl	V	Zn
STLC	15	5	100	0.75	1	5	80	25	5	350	0.2	20	1	5	7	24	250
TTLC	500	500	10000	75	100	500	8000	2500	1000	3500	20	2000	100	500	700	2400	5000
EAST PARCEL - HISTORICAL STAINED AREA																	
B-8@2'	ND	ND	148	0.6	1	71.1	46.2	113	47	36.8	0.05	100	ND	ND	ND	36.4	85.3
EAST PARCEL - PAVED ASPHALT AREA																	
B-1@2'	ND	55	259	1.1	ND	45	21.9	50.4	31	2.4	0.02	32.2	ND	ND	ND	79.8	78.2
B-2@2'	ND	ND	136	5.6	ND	ND	12.4	21.6	12	ND	ND	ND	ND	ND	ND	42.5	53.1
B-3@2'	ND	45	127	1.1	ND	39.5	19.1	30.4	30	2.1	ND	25.8	ND	ND	ND	75.1	74.9
B-4@2'	ND	19	111	0.6	ND	18.3	7	17.5	14	1.5	0.02	10.4	ND	ND	ND	32.5	40

STLC - Soluble threshold limit concentration, **TTLC** - Total threshold limit concentration, **NA** - Not analyzed, **ND** - Not detected.
An- Antimony, **As** - Arsenic, **Ba** - Barium, **Be** - Beryllium, **Ca** - Cadmium, **Cr** - Chromium (VI), **Co** - Cobalt and or cobalt compounds, **Cu** - Copper, **Pb** - Lead, **Mo** - Molybdenum, **Hg** - Mercury, **Ni** - Nickel, **Se** - Selenium, **Ag** - Silver, **Tl** - Thallium, **V** - Vanadium, **Zn** - Zinc.

SAB:WORD:1576-T2

TABLE 3

GROUND WATER TESTING RESULTS

Parts per Billion

ANALYTE	MW-1	ACTION LEVEL (a)
METALS (b)		
Barium	380	1000
Chromium	60	50
Vanadium	70	NS
Zinc	90	5,000*
HYDROCARBONS (c)		
TRPH	ND	NS
Chloroform	1.9	100
1,1-Dichloroethene	2.2	6
Tetrachloroethene	158	5
1,1,1-Trichloroethane	1.4	200
Trichloroethene	7.4	5

NOTES:

ND Not detected.

NS No established standard.

(a) California primary or secondary maximum contaminant level (MCL) for drinking water. Primary MCL listed unless otherwise indicated.

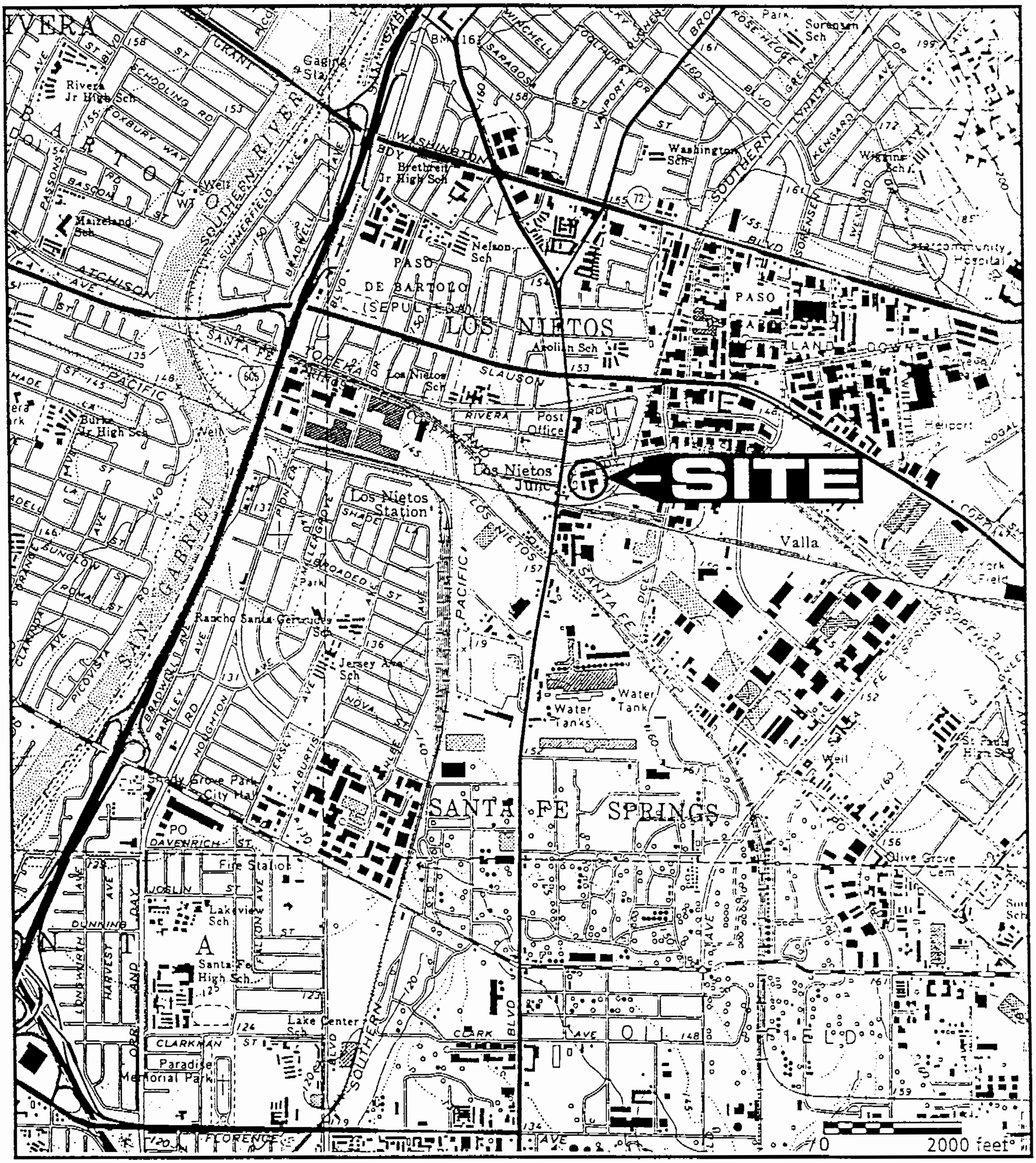
* Secondary MCL.

(b) Sample was tested for Title 22 metals by EPA Methods 200.7 and 245.1. Only the metals detected are listed on this table. See Appendix C for laboratory reports.

(c) Sample was tested for hydrocarbons by EPA Methods 418.1 and 624. Only the hydrocarbons detected are listed on this table. See Appendix C for laboratory reports.

SAB:WORD:1576-T3

FIGURES



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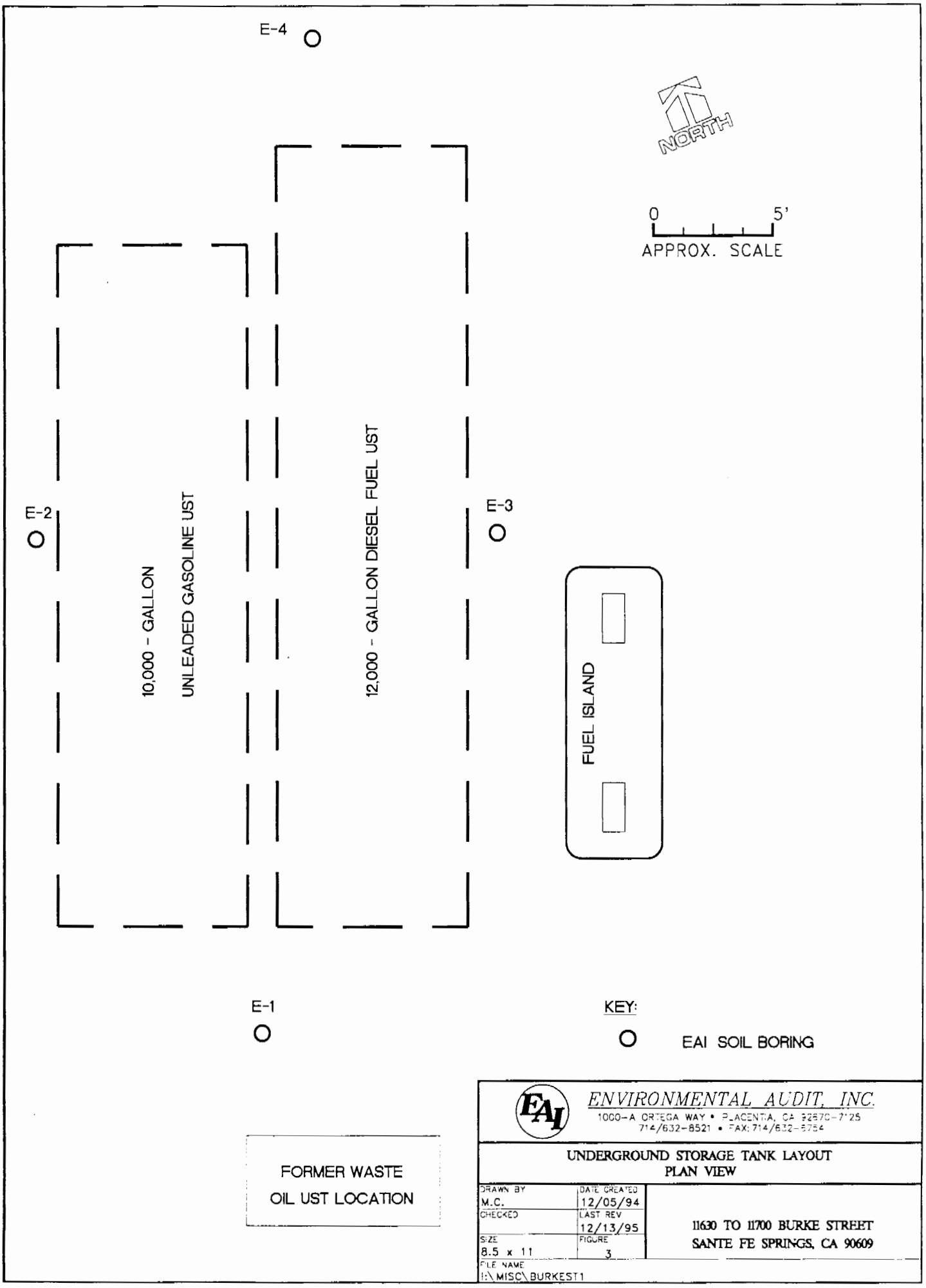
N

LOCATION MAP
11630-11700 Burke Street
Santa Fe Springs, CA 90609

SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES
WHITTIER, CALIFORNIA QUADRANGLE

Figure 1

Project No. 1576
K:\1576-LM.CDR



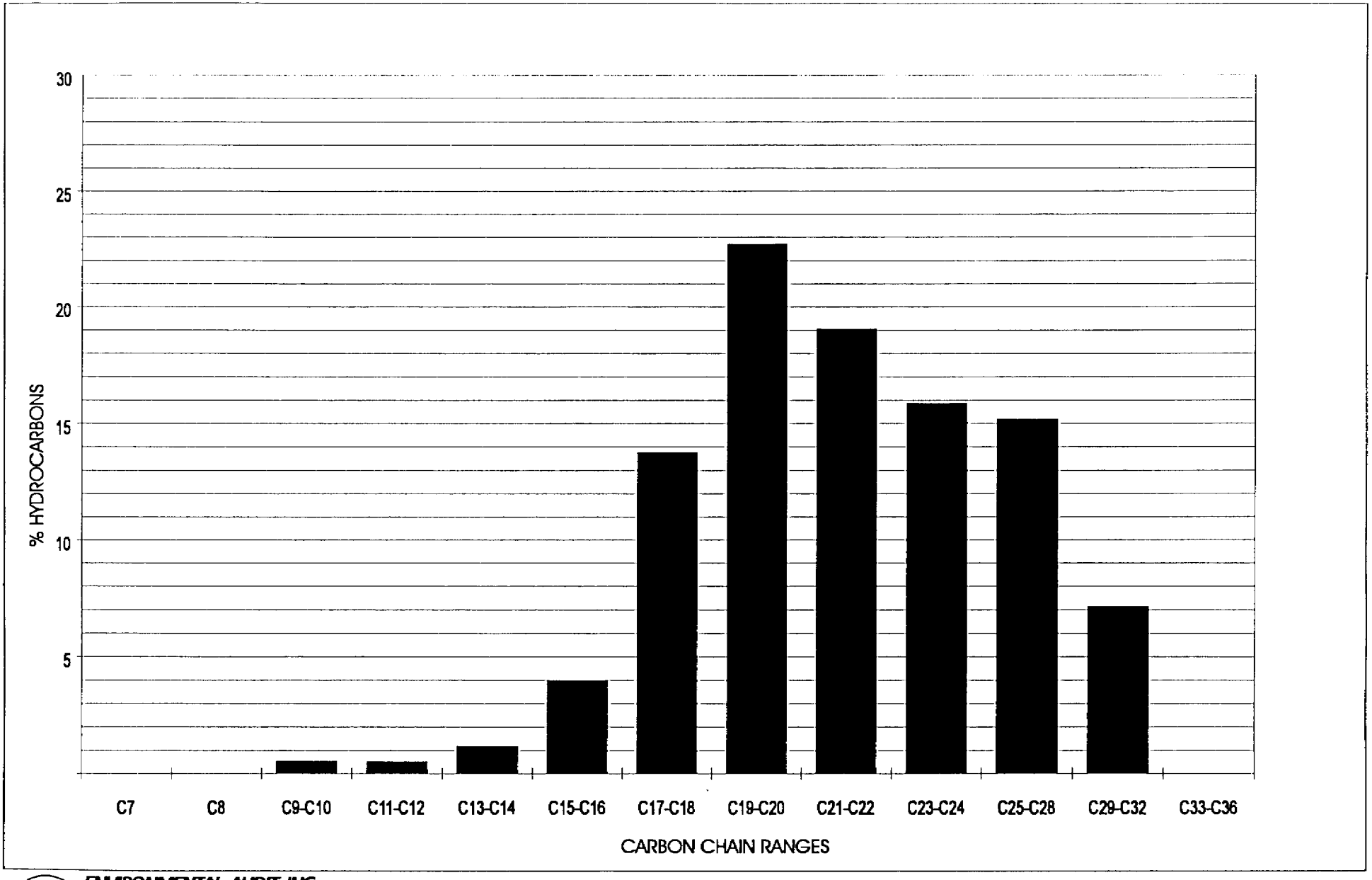
ENVIRONMENTAL AUDIT, INC.
1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125
714/632-8521 • FAX: 714/632-5754

UNDERGROUND STORAGE TANK LAYOUT
PLAN VIEW

DRAWN BY: M.C.	DATE CREATED: 12/05/94
CHECKED:	LAST REV: 12/13/95
SIZE: 8.5 x 11	FIGURE: 3
FILE NAME: I:\MISC\BURKEST1	

11630 TO 11700 BURKE STREET
SANTE FE SPRINGS, CA 90609

Job No. 1576



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Percent of Hydrocarbons with Individual Carbon Chain Ranges for Sample E-9@15-16'

Figure 4

Project No. 1576
K:1576HIST.CDR

APPENDIX A: Health and Safety Plan

HEALTH AND SAFETY PLAN
Remedial Investigation
11630-11700 Burke Street
Los Angeles, CA 90670

Project No. 1576

November 25, 1994

ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous
Substances Management and Remediation

1000-A ORTEGA WAY
PLACENTIA, CA 92670-7125
714/632-8521

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SAB:WORD:1576HASP

1.0 INTRODUCTION

1.1 BACKGROUND

AIG Consultants, Inc. (AIG) was retained in 1994 by the property owner (Mr. William Palley) to conduct a Phase I Environmental Site Assessment of the property located at 11630-11700 Burke Street, Santa Fe Springs, California (Site) (see Figure 1). The Site is divided into two parcels, i.e., an east parcel and a west parcel. The east parcel was vacant at the time of the AIG work, and the west parcel was occupied by Talco Plastics, Inc. AIG recommended that sampling be completed at the Site to determine the presence or absence of contamination (see AIG, 1994).

In August 1994, Professional Service Industries, Inc. (PSII) drilled and sampled borings on the Site. Soil samples were tested for hydrocarbons and metals. Heavy end hydrocarbons characterized by PSII as lubrication oil, trichloroethene, tetrachloroethene, and various metals were detected in samples collected from the Site (see PSII, 1994).

Environmental Audit, Inc. (EAI) was retained to complete remedial investigation activities at the Site to better define the extent of soil contamination encountered by PSII, and to determine whether ground water has been impacted.

1.2 PURPOSE

This Health and Safety Plan (HASP) describes equipment, procedures and other requirements necessary to ensure the safety of EAI personnel on the Site, to the degree feasible, during investigation activities. The information contained in this HASP complies with, but does not contain, all safety rules and regulations as set forth in 29 Code of Federal Regulations (CFR) 1910 and 1926, and California Health and Safety Regulations as set forth in Title 8, California Code of Regulations (CCR). This HASP is to be used by EAI personnel as a supplement to such rules and regulations.

The health and safety requirements presented in this document are based on information available from Site records, and an analysis of potential hazards associated with the proposed Site activities. This HASP provides an overview of hazards and establishes worker's safety procedures.

2.0 AUTHORITY AND RESPONSIBILITY

EAI has responsibility only for the health and safety of its employees during the work outlined in Section 3.0. The EAI Site Safety Officer (SSO) is responsible for the daily implementation of the health and safety program. The SSO will be on-site during Site activities to monitor safety and health and decontamination protocols. Prior to initiation of Site activities, the SSO, EAI Project Manager (PM) or designee will verify that EAI personnel who will be on the Site have read, understood and agreed to the health and safety procedures outlined herein. The SSO and PM, individually, have the authority to take appropriate actions or stop work to achieve compliance with this HASP.

EAI is providing a copy of this HASP to each of its contractors in order to fulfill its obligation under 29 CFR 1910.120, to inform contractors of Site hazards. Each EAI contractor is solely responsible for the safe and healthful performance of work by each of its employees and support personnel who may enter the Site. Each contractor shall hold EAI harmless from, and indemnify EAI against, all liability in the case of any injury. A copy of the contractors' HASP will be provided to EAI upon request. The contractor will provide its own safety equipment in accordance with its HASP requirements. The contractor will comply with all regulations, including 29 CFR 1910.134 (Respiratory Protection) and 29 CFR 1910.120 (Hazardous Waste Operations).

EAI reserves the right to suspend or terminate the contractor's Site work, and to ask the contractor's personnel to evacuate the Site in the event that grossly inadequate health and safety precautions on the part of the contractor or the belief that the contractor's personnel are or may be exposed to an immediate health hazard.

3.0 FIELD WORK

The planned field work to be completed in association with the investigation activities includes:

- Establish Exclusion, Decontamination and Clean zones.
- Drill and sample borings.
- Construct, develop, survey, purge and sample ground water monitoring wells.
- Field screen soil samples for volatile organic compounds using an photoionization (PID).
- Conduct personnel and equipment decontamination.

4.0 UNDERGROUND AND OVERHEAD UTILITIES

EAI will attempt to locate or cause to be located all known underground and overhead utilities prior to the commencement of Site activities. Electricity can shock, burn and result in death. All underground and overhead utilities are considered live and dangerous.

5.0 HAZARD ASSESSMENT

Previous subsurface investigations conducted at the Site have encountered contaminants, e.g., hydrocarbons and metals. Appendix A contains information on the substances encountered at the Site to date, and those that potentially could be encountered based on information available to EAI, e.g., gasoline and diesel fuel.

5.1 INHALATION HAZARD

Respirators equipped with organic vapor cartridges will be available for use during Site activities, should their use be warranted. Should chemicals be encountered at the Site for which these respirators will not offer sufficient protection, the SSO or PM will immediately cease activities and determine the appropriate course of action.

5.2 INGESTION HAZARD

Site contaminants can enter the body via ingestion. Because of this, all activities that increase the probability of hand-to-mouth transfer and ingestion of materials including, but not limited to gum or tobacco chewing, smoking, eating and drinking will be prohibited in the Exclusion Zone. Each worker's hands and face will be thoroughly washed and protective clothing removed prior to initiating any hand-to-mouth activity.

5.3 ABSORPTION HAZARD

Skin contact with contaminated materials may result in localized irritation, systemic illness and/or skin lesions at the point of contact. For this reason, skin contact with contaminated materials will be avoided by the use of protective clothing and equipment. Protective clothing and equipment is required in areas where waste materials are handled.

5.4 HEAD HAZARD

All EAI and contractor personnel will wear hard hats at all times within the Exclusion Zone.

5.5 PHYSICAL HAZARD

Physical hazards such as heat stress and/or other types of injury (e.g., back) due to heavy lifting are possible during field activities. Heat stress can increase the magnitude of physical hazards on-site. Personal awareness, strict adherence to safety requirements, use of the buddy system and work breaks will be mandatory to reduce the potential for accidents and injuries to personnel.

Heat Stress

Sweating does not cool the body unless moisture evaporates from the skin. Wearing personal protective equipment (PPE), should it be required, reduces the body's ability to eliminate large quantities of heat since sweat evaporation is decreased.

Problems related to heat stress include heat fatigue, heat rash, fainting, heat cramps, heat exhaustion and heat stroke. Heat rash occurs when sweat does not evaporate, causing the skin to be wet for an extended period of time. Standing erect and immobile in heat also allows blood to pool to lower parts of the body. As a result, blood does not return to the heat to be pumped to the brain. Fainting may then occur.

Heat cramps are painful spasms of the muscles due to excessive salt loss associated with profuse sweating. Losing large amounts of fluid and salt may result in heat exhaustion. The skin will be clammy and moist. Affected persons will also exhibit extreme wetness, giddiness, nausea and headache.

Heat stroke occurs when the body's temperature regulatory system has failed. Symptoms of heat stroke include hot, dry, red and/or spotted skin. The affected person may be mentally confused and delirious. Convulsions also can occur. *Early recognition and treatment of heat stroke are the only means of preventing damage or death*. A person exhibiting signs of heat stroke should be removed from the work area to a shaded area. A person exhibiting signs of heat stroke should be soaked with water to promote evaporation, and fanned to increase body cooling.

Increased body temperature and physical discomfort also promote irritability and a decreased attention to the performance of hazardous tasks.

Early symptoms of heat-related health problems include:

- Decline in task performance
- Lack of coordination
- Decline in alertness
- Unsteady walk
- Muscle cramps
- Dizziness

People unaccustomed to heat are particularly susceptible to heat fatigue. Workers using PPE for the first time need to gradually adjust to the heat.

Measures to avoid heat stress include:

- Define work-rest periods (short and frequent are more beneficial than long and seldom).
- Rotate personnel, alternative job function.
- Water intake should be equal to sweat produced. Most workers exposed to hot conditions drink less fluids than needed because of insufficient thirst. *Do not depend on thirst to signal when and how much to drink*. For an eight-hour work day, 50 ounces of fluids should be consumed.
- Eat lightly salted foods or drink salted drinks, e.g., "Gatorade", to replace lost salts.
- Avoid alcohol.
- Avoid overtime.

6.0 TRAINING AND MEDICAL CLEARANCE

Any person who enters a site Exclusion Zone must have been trained to understand the potential health and safety hazards associated with their tasks. Additionally, a medical clearance will be required for all persons working within the Exclusion Zone. Personnel will not be assigned to field activities until they have been trained to a level commensurate with their job function and the degree of anticipated hazard.

EAI will require each of its contractors to sign an Acknowledgment of Receipt of Site Health and Safety Plan (see Form 1) and to certify that contractor personnel have met the

requirements of the OSHA Hazardous Waste Operations Standard (29 CFR 1910.120) and other applicable OSHA standards (see Form 2).

7.0 GENERAL HEALTH AND SAFETY REQUIREMENTS

EAI will have Site safety and health oversight and coordination responsibilities. However, each contractor will be held accountable for the safe and healthful performance of work by each of their employees, subcontractors, support personnel or others who may enter the Site at their request.

7.1 SITE SAFETY MEETINGS

Prior to commencement of Site activities, a Site safety meeting will be conducted to discuss potential hazards associated with completing the work. The meeting will be conducted by the SSO or PM, and attended by all personnel involved in field activities at the Site. Subsequent meetings will be held when new personnel enter the Site or as needed.

7.2 SITE CONTROL

The Site is completely fenced. Barriers will be used, to the degree feasible, to define a no smoking and limited access zone around the Exclusion Zone. Access control will be established at the periphery of the Exclusion Zone to properly regulate the flow of personnel and equipment into and out of the zone. The SSO or PM will require evidence of training prior to granting entry into the Exclusion Zone. No visitors will be allowed into the Exclusion Zone unless they comply with the requirements of this HASP.

7.3 PERSONAL PROTECTIVE EQUIPMENT

The following is the health and safety equipment list:

- Hardhats
- Safety glasses/goggles
- Ear plugs or muffs
- Tyvek coveralls
- Chemical resistant boots
- Work gloves
- Nitrile gloves
- Surgical vinyl inner gloves
- Plastic sheeting
- 55-gallon drums
- Barricade tape and barricades
- Wash buckets and scrub brushes
- Alconox detergent
- Draeger kit
- Half-face/full-face respirators
- Appropriate respirator cartridges
- Respirator sanitizing equipment

- First aid kit
- Type ABC fire extinguishers
- Organic vapor analyzer

7.4 CHEMICAL EXPOSURE MONITORING

An HNU Model DL-101 PID or equivalent instrumentation, will be used to monitor for airborne concentrations of volatile organic compounds (VOCs). Prior to initiation of field activities, an ambient background reading (15 minute average) will be measured upwind of the work zone.

Air monitoring during field activities will be conducted in the immediate breathing zones. If total VOC readings exceed 50 ppm over background for more than one minute, the respirators identified in Section 7.3 will be donned. The SSO will then use Draeger tubes to attempt to identify airborne concentrations. Respirators will be worn until the SSO indicates that their use is no longer warranted. If total VOC readings exceed 100 ppm over background for more than one minute, personnel will evacuate the Exclusion Zone until levels dissipate and the SSO indicates that work can safely be reinitiated or alternative forms of protection or engineering controls are provided.

7.5 NOISE MONITORING

No noise monitoring will be conducted. Personnel working in areas where noise levels may exceed 85 dBA will be required to wear hearing protective devices capable of reducing noise levels to no more than 85 dBA. These may include ear plugs and/or ear muffs.

7.6 SANITATION

One of the existing on-site restrooms will be designated for use by personnel involved in completing investigation activities.

7.7 PARTICULATE MATTER/DUST

The Site is completely paved so no particulate monitoring will be conducted.

8.0 DECONTAMINATION PROCEDURES

Decontamination of equipment and personnel is necessary to confine contaminants to the Site and preclude migration elsewhere. An on-site area will be designated (Decontamination Zone) for decontamination of equipment. The general steps to be followed are: 1) establish an equipment drop area; 2) wash equipment with an Alconox detergent and clean water rinse (a steam cleaner also may be used); and 3) properly contain and store effluent generated from decontamination procedures.

Decontamination of personnel will consist primarily of a soap (Alconox) and water rinsing of exterior protective gear to remove contaminants, followed by removal of the gear. Disposable

coveralls will be removed by turning the clothing inside out. Clean water will be provided to rinse work gloves and boots.
The above listed equipment and personnel decontamination requirements/procedures are minimums. The SSO can require additional washing, or other modifications to the procedures as deemed appropriate.

9.0 DISPOSAL PROCEDURES

All waste materials will be handled in such a way as to preclude the potential for spreading contamination, creating a sanitary hazard, or causing litter to be left at the Site. The waste materials will be sealed in labeled 55-gallon drums or similar storage containers, pending proper disposal.

10.0 COMMUNICATION PROCEDURES

The Site has an operable telecommunications system, i.e., telephones. Three horn blasts from any project vehicle is the emergency signal to indicate that all personnel must leave the Exclusion Zone.

The following standard hand signals will be used:

- Hand gripping throat..... Out of air, can't breath
- Grip partner's wrist or both hands around waist..... Leave area immediately
- Hands on top of head ..... Need assistance
- Thumbs Up..... OK, I am alright, I understand
- Thumbs Down ..... No, Negative

11.0 EMERGENCY PROCEDURES

Prior to the commencement of on-site project field work, the SSO/PM will establish emergency evacuation routes. The SSO/PM will also establish the "safe zone" location, on a daily basis, as indicated by weather conditions, Site activities, etc.

11.1 MEDICAL FACILITY

All emergencies shall be immediately reported to the SSO. In the event of an emergency that is beyond the capabilities of on-site trained personnel, the following resources will be utilized:

Ambulance	911
Fire Department	911
Police	911
Poison Control	800/777-6476
CA DHS Toxic Substances Line	714/346-0840
Hazardous Evaluation System and Information System	510/540-2115

Nearest Hospital:

Presbyterian Inter-County Hospital
12401 E. Washington Boulevard
Whittier, CA 90602
310/698-0811

Figure 2 is an emergency route map to the hospital.

EAI Contacts:

Steven Bright, Project Director	714/632-8521, ext. 224
Edward Leonhardt, Project Manager	714/632-8521, ext. 232
Chris P.R. d'Sa, Project Geologist	714/632-8521, ext. 233
Debra Bright, Health and Safety Manager	714/632-8521, ext. 241

11.2 ACCIDENT REPORTING

The accident report form will be submitted by the SSO or PM and individual associated with each job related accident. Submittal of the form will be made as soon as possible but no later than 48 hours after the accident. Pertinent facts not immediately known will be submitted in a supplemental report. The involved individual will certify and retain the original report and submit copies to the SSO and PM. Appendix B contains a copy of the accident report form.

11.3 DEBRIEFING

The SSO or PM will conduct personnel debriefing after all emergencies to assess preparedness, prevention and response activities. The goal of the debriefing is to ensure that similar emergencies are precluded from occurring.

12.0 RECORDKEEPING

The PM and SSO are responsible for Site recordkeeping. A project specific field notebook bound with numbered pages will be maintained to record Site specific information including, but not limited to, on-site project personnel, work dates, field monitoring results, Site visitors, and work completed each day.

13.0 LIMITATION

This HASP has been prepared using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

EAI does not guarantee the health and safety of any person entering the Site. Due to the hazardous nature of the Site and the activities occurring thereon, it is not possible to discover, identify, evaluate and provide protection for all the possible hazards which may be encountered. Strict adherence to the health and safety guidelines set forth herein and in 29 CFR and Title 8, CCR will reduce, but can not eliminate, the potential for injury at the Site.

14.0 REFERENCES CITED

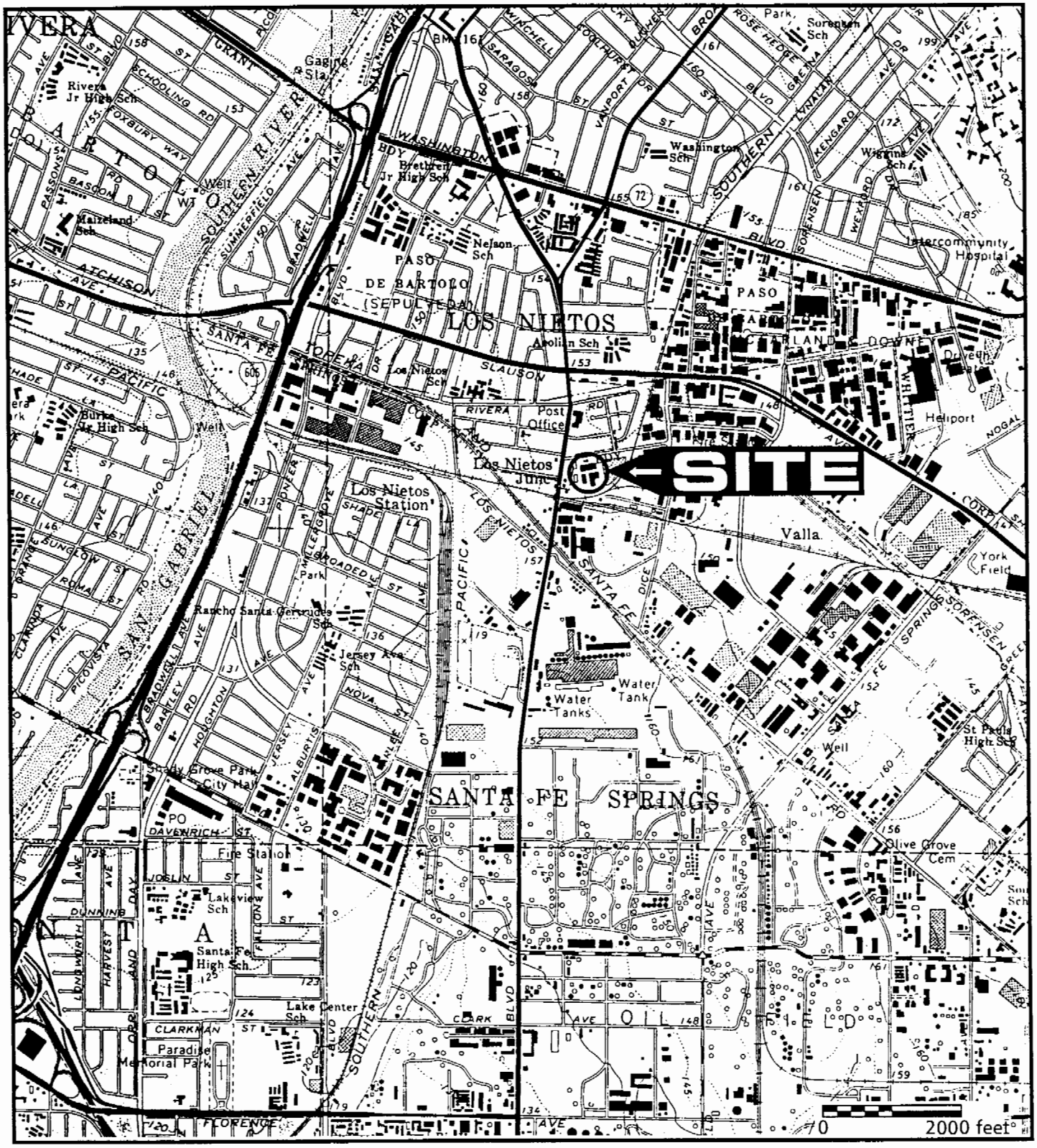
AIG Consultants, Inc., "Phase I Environmental Site Assessment, Industrial Buildings, 11630-11700 Burke Street, Santa Fe Springs, California 90670", dated June 30, 1994 (AIG, 1994).

Professional Service Industries, Inc., "Phase II Preliminary Contamination Assessment, 11630-11700 Burke Street, Santa Fe Springs, California", dated August 18, 1994 (PSII, 1994).

SAB:DAB:sh

SAB:WORD:1576HASP

FIGURES



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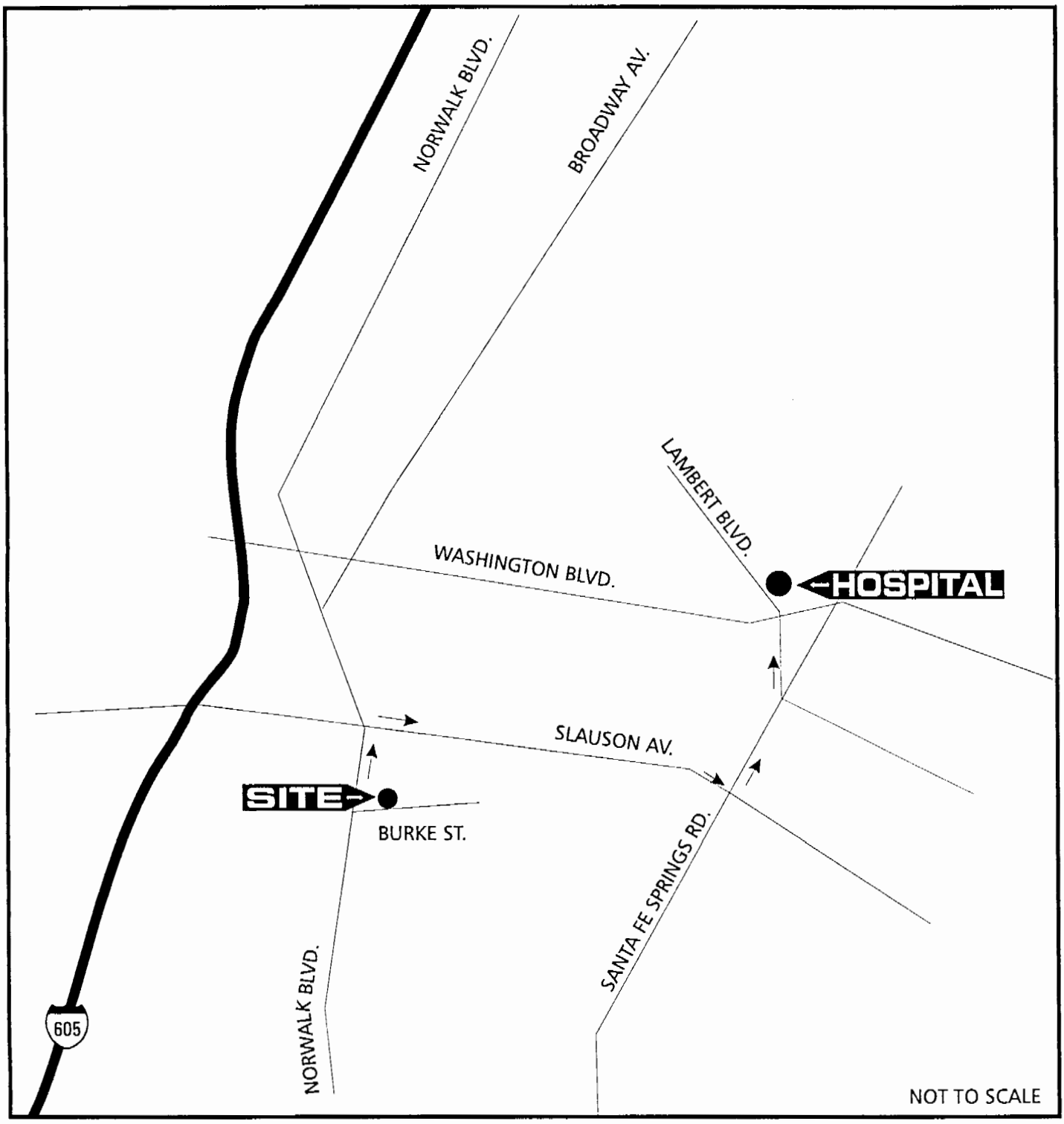
LOCATION MAP
11630-11700 Burke Street
Santa Fe Springs, CA 90609

SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES
WHITTIER, CALIFORNIA QUADRANGLE

Figure 1

Project No. 1576
K:\1576-LM.CDR



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HOSPITAL ROUTE MAP
Presbyterian Inter-County Hospital
12401 E. Washington Blvd.
Whittier, CA 90602
Tel: 310/698-0811

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Figure 2

Project No. 1576
K:\1576HASP.CDR

FORMS

ENVIRONMENTAL AUDIT, INC.®

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

ACKNOWLEDGMENT OF RECEIPT
OF
SITE HEALTH AND SAFETY PLAN

EAI PROJECT NO._____ CLIENT_____
HEALTH AND SAFETY PLAN DATE_____
EAI PROJECT MANAGER_____
JOB LOCATION_____
_____
_____

THE UNDERSIGNED CERTIFY THAT THEY HAVE RECEIVED A COPY OF THE EAI HEALTH AND SAFETY PLAN REFERENCED ABOVE; THAT THIS PLAN IS BEING PROVIDED BY EAI IN ORDER TO FULFILL ITS OBLIGATION UNDER 29 CFR 1910.120 TO INFORM CONTRACTORS OF SITE HAZARDS, THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFE AND HEALTHFUL PERFORMANCE OF WORK BY EACH OF ITS EMPLOYEES AND SUPPORT PERSONNEL WHO MAY ENTER THE SITE; AND THAT THE CONTRACTOR HOLDS EAI HARMLESS FROM, AND INDEMNIFIES EAI AGAINST, ALL LIABILITY IN CASE OF AN INJURY.

READ, UNDERSTOOD, AGREED TO AND ACCEPTED BY:

NAME	COMPANY	SIGNATURE	DATE

SAB:ACK

FORM 1

ENVIRONMENTAL AUDIT, INC.®
1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125
714/632-8521 • FAX: 714/632-6754

CONTRACTOR OCCUPATIONAL SAFETY AND HEALTH CERTIFICATION

CONTRACTOR: Name:
Address:

Telephone No.:

Contractor certifies that the following personnel have met the requirements of the OSHA Hazardous Waste Operations Standard (29 CFR 1910.120) and other applicable OSHA Standards.

CONTRACTOR PERSONNEL (Name)	TRAINING	RESPIRATOR CERTIFICATION	MEDICAL EXAMINATION

Contractor certifies that the information contained on this form is true and correct.

Name_____Title_____

Signature_____Date_____

SAB:SCF

FORM 2

APPENDIX A

DIESEL FUEL

CAS NO.: N/A
DOT NO.: 1203
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: N/A

USES

Diesel fuel is a gas oil fuel fraction used in high-speed engines and is obtained from petroleum distillation. There are basically four categories of diesel fuels reported: (1) diesel fuel oils for city-bus and similar service (2) fuels for diesel engines in trucks, tractors, and similar services (3) fuel for railroad diesel engines: and (4) heavy distillate and residual fuels for large stationary and marine diesel engines.

The composition varies depending on ratios of aliphatic, olefinic, cycloparaffinic, and aromatic hydrocarbons as well as fuel additives. The flash point varies from 33°C to 54°C, classifying diesel fuel as a combustible liquid.

POTENTIAL DANGERS

Neither OSHA or ACGIH has set a limit for occupational exposure to diesel fuel. Since the physiological effects of diesel fuel are expected to be similar to those of kerosene, we have assumed that the potential hazards of kerosene adequately represent the hazards of diesel fuel. There are no PELs or TLVs for kerosene; however, NIOSH has recommended a 14 ppm Time Weighted Average (TWA) for kerosene since 14 ppm is its air saturation concentration and it has a history of relatively low toxicity.

Local harmful effects the liquid may produce are primary skin irritation as a result of defatting. Aspiration of liquid may cause extensive pulmonary injury.

ROUTES OF ENTRY

Most common routes of entry into the body consist of inhalation of vapor, ingestion, skin and eye contact.

FIRST AID

If this agent gets into the eyes, immediately flush with water for 15 minutes. If this agent contacts the skin, wash with soap promptly. If a person breathes in large amounts of this agent, move the exposed person to fresh air at once and perform artificial respiration, if needed. When this agent has been swallowed, get medical attention. DO NOT induce vomiting; it may cause serious pneumonitis.

SAB:HASP:DIESEL

GASOLINE

CAS NO.: 8006619
DOT NO.: 1203
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: 300 ppm; 890 mg/m^3

USES

Gasoline is used as a fuel, diluent and solvent throughout industry. Gasoline is most commonly used in passenger vehicles and low torque to horsepower ratio engines. It is a common air contaminant and can react vigorously with oxidizing materials.

A typical gasoline composition would be 80% paraffins, 14% aromatics, and 6% olefins. Generally, there is a mean benzene content of approximately 1%. Tetraethyl and tetramethyl lead are low in volatility and are not usually significant health hazards in the handling of leaded gasoline, as long as dermal contact is avoided. Other additives may include n-hexane and n-heptane.

Gasoline is a volatile, flammable liquid with a distinct odor. The lower and upper explosive limits are 1.3% and 6%, respectively.

POTENTIAL DANGERS

Possible local harmful effects of gasoline include irritation of skin, conjunctive, and mucus membranes. Dermatitis may result from repeated and prolonged contact with the liquid, which may defat the skin. Certain individuals may develop hypersensitivity.

Possible systemic effects: gasoline vapor acts as a central nervous system depressant. Exposure to low concentrations may produce flushing of the face, staggering gait, slurred speech, and mental confusion. In high concentrations, gasoline vapor may cause unconsciousness, coma, and possibly death resulting from respiratory failure.

Other signs also may develop following acute exposure. These signs are early acute hemorrhage of the pancreas, centrilobular cloudy swelling and fatty degeneration of the liver, fatty degeneration of the proximal convoluted tubules and glomeruli of the kidneys, and passive congestion of the spleen.

ROUTES OF ENTRY

Ingestion and aspiration of liquid gasoline usually occurs during siphoning. Chemical pneumonitis, pulmonary edema, and hemorrhage may follow. Aromatic hydrocarbon content may also cause hematopoietic blood changes.

Absorption of alkyd lead antiknock agents contained in many gasolines poses an additional problem especially where there is prolonged skin contact. The existence of chronic poisoning has not been established.

Most cases of poisoning reported have resulted from inhalation of vapor and ingestion. It is not known whether gasoline poisoning may be compounded by percutaneous absorption.

FIRST AID

Irrigate eyes with running water. Wash contaminated areas of body with soap and water. If swallowed, use gastric lavage (wash) followed by saline catharsis. If person breathes in large amounts of gasoline, move the exposed person to fresh air at once and perform artificial respiration, if needed.

SAB:HASP:GASOLINE

BENZENE

CAS NO.: 71432
DOT NO.: 1114
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: 10 ppm; 32 mg/m^3

USES

Benzene is an aromatic compound used mainly in chemical processes as a raw material and as a solvent. It is used as a constituent in motor fuels, as a solvent for fats, inks, oils, paints, plastics, rubber and in photogravure printing. It is also used in the manufacture of detergents, explosives, pharmaceuticals and dye stuffs. Note: increased concern for benzene as a significant environment pollutant from public exposure is due to the presence of benzene in gasoline for unleaded fuel requirements.

POTENTIAL DANGERS

Benzene, under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65), is listed as a chemical known to the State of California to cause cancer. A relationship between exposure to benzene and carcinogenesis has still not been confirmed; however, benzene has been classified as a Suspected Human Carcinogen.

Poisoning occurs most commonly through the inhalation of vapor, though benzene can penetrate the skin and poison in that way. Acute exposure to benzene results in central nervous system depression. Headache, dizziness, nausea, convulsions, coma and death may result.

Points of attack are the blood, central nervous system, skin, bone marrow, eyes, and respiratory system.

ROUTES OF ENTRY

The common routes of entry for benzene absorption are through the inhalation of vapor and through the penetration of the skin.

FIRST AID

If this chemical gets into the eyes, flush immediately with water. If this chemical contacts the skin, wash with soap promptly. If a person breathes in large amounts of benzene, move the exposed person to fresh air at once and perform artificial respiration, if needed. When benzene has been swallowed, get medical attention. DO NOT induce vomiting. Aspiration could cause chemical pneumonia.

SAB:HASP:BENZENE

TOLUENE

CAS NO.: 108883
DOT NO.: 1294
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: 100 ppm, 377 mg/m^3

USES

Toluene may be encountered in the manufacture of benzene. It is also used as a solvent for paints and coatings; as a component of automobile and aviation fuels; or as a chemical feed for toluene diisocyanate, phenol, benzyl and benzoyl derivatives, benzoic acid, toluene sulfonates, nitrotoluenes, vinyltoluene, and saccharin.

Formerly derived solely from coal tar, toluene is now obtained chiefly from petroleum. Toluene is a colorless liquid with an aromatic odor, and is flammable. The closed flash point is 40°F.

POTENTIAL DANGERS

Local harmful effects of toluene include irritation of the eyes, respiratory tract and skin. Repeated or prolonged contact with toluene may cause removal of natural lipids from the skin, resulting in dry, fissured dermatitis. Toluene splashed in the eyes may cause irritation and reversible damage.

Systemic effects of acute exposure to toluene predominantly may result in central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, skin paresthesia and coma.

Points of attack are the central nervous system, liver, kidneys and skin.

ROUTES OF ENTRY

Inhalation of vapor, percutaneous dermal absorption, ingestion, skin and eye contact.

FIRST AID

If toluene gets into the eyes, immediately flush with water for 15 minutes. If toluene contacts the skin, promptly wash with soap and water. If a person breathes in large amounts of toluene, move the exposed person to fresh air at once and perform artificial respiration, if needed. When toluene has been swallowed, get medical attention. DO NOT induce vomiting; aspiration may cause chemical pneumonia.

SAB:HASP:TOLUENE

XYLENE (all isomers)

CAS NO.: 1330207
DOT NO.: 1307
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: 100 ppm; 434 mg/m^3

USES

Xylene exists in three isometric forms, ortho-, meta-, and paraxylene. Commercial xylene is a mixture of these isomers and may also contain ethylbenzene, as well as small amounts of toluene, trimethylbenzene, phenol, thiophene, pyridine, and other non-aromatic hydrocarbons. M-xylene is predominant in commercial xylene and shares physical properties with o-xylene, in that both are mobile, colorless, flammable liquids. P-xylene, at a low temperature (13° to 14°C), forms colorless plates or prisms.

Xylene is a component of paints, coatings and petroleum solvents, and gasoline. It is used in the manufacture of dyes and insecticides. The xylenes are very high-tonnage industrial chemicals and are raw materials for synthetic fibers, resins, and plastics. A large amount of p-xylene goes into polyester fiber production, while substantial o-xylene is consumed by the manufacture of phthalic anhydride.

POTENTIAL DANGERS

Local harmful effects of xylene include irritation of the eyes, nose, and throat. Repeated or prolonged skin contact with xylene may cause drying and defatting of the skin which may lead to dermatitis. Liquid xylene is an irritant to the eyes and mucus membranes, and aspiration of a few milliliters may cause chemical pneumonitis, pulmonary edema, and hemorrhage. Repeated exposure of the eyes to high concentrations of xylene vapor may cause reversible eye damage.

Systemic effects of xylene vapor include central nervous system depression and minor reversible effects upon the liver and kidneys. At high concentrations, breathing xylene vapors may cause dizziness, staggering, drowsiness, and unconsciousness. Also at high concentrations, breathing xylene vapors may cause pulmonary edema, anorexia, nausea, vomiting, and abdominal pain.

Points of attack are the central nervous system, eyes, gastrointestinal tract, blood, liver, and skin.

ROUTES OF ENTRY

Inhalation of vapor and, to a small extent, percutaneous dermal absorption of liquid. Also ingestion and skin and eye contact.

FIRST AID

If this chemical gets into the eyes, flush immediately with water for 15 minutes. If this chemical contacts the skin, wash with soap and water promptly. If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once and perform artificial respiration, if needed. When this chemical has been swallowed, get medical attention immediately. DO NOT induce vomiting; aspiration may cause chemical pneumonia.

SAB:HASP:XYLENE

ETHYLBENZENE

CAS NO.: 100414
DOT NO.: 1175
DOT HAZARD CLASS: Flammable Liquid
TLV-TWA: 100 ppm; 434 mg/m^3

USES

Ethylbenzene is used in the manufacture of cellulose acetate, styrenes, and synthetic rubber. It is also used as a solvent or diluent and as a component of automobile and aviation gasoline.

Ethylbenzene is a colorless, flammable liquid with an aromatic odor. Significant quantities of ethylbenzene are present in mixed xylenes. These are used as diluents in the paint industry, in agricultural sprays for insecticides, and in gasoline blends (which may contain as much as 20% ethylbenzene). Due to the large quantities of ethylbenzene produced and the diversity of products in which it is found, there exist many environmental sources of ethylbenzene, e.g., vaporization during solvent use, and pyrolysis of gasoline and emitted vapors at filling stations.

POTENTIAL DANGERS

Ethylbenzene is a defatting agent and may cause dermatitis following prolonged exposure. Concern is expressed about the kidneys and liver because the kidneys are the primary route of excretion of ethylbenzene, and ethylbenzene is metabolized by the liver. Irritation of the eyes and mucus membranes, headaches, dermatitis, narcosis, and coma may result because of exposure to ethylbenzene.

Points of attack are the eyes, upper respiratory system, skin, and central nervous system.

ROUTES OF ENTRY

Inhalation, ingestion, eye and skin contact.

FIRST AID

If ethylbenzene gets into the eyes, immediately flush with water for 15 minutes. If ethylbenzene contacts the skin, flush with water promptly. If a person breathes in large amounts of ethylbenzene, move the exposed person to fresh air at once and perform artificial respiration, if needed. When ethylbenzene has been swallowed, get medical attention. DO NOT induce vomiting aspiration may cause chemical pneumonia.

SAB:HASP:ETHYLB

CHROMIUM

CAS NO.: 7440-47-3
DOT NO.: N/A
DOT HAZARDOUS CLASS: N/A
TLV-TWA: 0.5 mg/m^3

USES

Chromium may exist in one of three valence states in compounds, +2, +3, and +6. Chronic acid, along with chromates, are in the hexavalent form. Chromium trioxides (also known as chronic anhydride), chronic acid and chromium (VI) oxide are used in chrome plating, copper stripping, aluminum anodizing, as a catalyst, in refractories, in organic synthesis, and in photography. Certain forms of chromium (VI) have been found to cause increased respiratory cancer mortality among workers. It is recommended that chromium (VI) in the workplace be considered carcinogenic, unless it has been demonstrated that only the non carcinogenic chromium (VI) compounds are present.

POTENTIAL DANGERS

Local harmful effects: chromium compounds act in some workers as allergens which cause dermatitis to exposed skin. They may also produce pulmonary sensitization. Chronic acid has a direct corrosive effect on the skin and the mucous membranes of the upper respiratory tract; and, although rare, the possibility of skin and pulmonary sensitization should be considered.

Systemic effects of chromium compounds in the +3 state are of a low order of toxicity. In the +6 state, chromium compounds are irritants and corrosive, and can enter the body by ingestion, inhalation, and through the skin.

The symptoms of exposure to the human body are nose/nasal septum irritation, leukocytosis, leukopenia, monocytosis, eosinophilia, conjunctivitis of the eyes, skin ulcers, sensitization dermatitis, and histologic fibrosis of the lungs.

ROUTES OF ENTRY

The common routes of entry of chromium compounds into the human body are ingestion, inhalation, and eye and skin contact.

FIRST AID

If chromium compounds come in contact with the eyes, immediately flush the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with chromium. If chromium contacts with the skin, immediately flush the contaminated skin with soap and water. These chemicals penetrate through the clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention. If a person breathes in large amounts of chromium compounds, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible. If these chemicals have been swallowed, get medical attention immediately.

SAB:HASP:CHROMIUM

DOT Designation: Nonflammable gas.

Potential Exposures: Argon is used as an inert gas shield in arc welding; it is used to fill electric lamps. It is used as a blanketing agent in metals refining (especially titanium and zirconium).

Permissible Exposure Limits in Air: There is no Federal standard. ACGIH lists argon as a simple asphyxiant with no specified TLV.

Permissible Concentration in Water: No criteria set.

Routes of Entry: Inhalation and possibly skin contact with liquid argon.

Harmful Effects and Symptoms: The gas is a simple asphyxiant as noted above. The liquid can cause frostbite.

Disposal Method Suggested: Vent to atmosphere.

References

(1) Sax, N.I., Ed., *Dangerous Properties of Industrial Materials Report, 1,* No. 5, 36-37, New York, Van Nostrand Reinhold Co. (1981).

ARSENIC AND ARSENIC COMPOUNDS

- Carcinogen (IARC) (11)
- Hazardous substances (Some compounds, EPA)
  Arsenic compounds classified by EPA as hazardous substances are: arsenic disulfide, arsenic pentoxide, arsenic trichloride, arsenic trioxide and arsenic trisulfide. Also the EPA has issued rebuttable presumptions against registration (RPAR's) for several arsenic-containing pesticides as follows: arsenic acid, cacodylic acid, calcium arsenate, DSMA, lead arsenate, MSMA and sodium arsenite.
- Hazardous waste constituents (EPA)
- Priority toxic pollutant (EPA)

Description: As, elemental arsenic, occurs to a limited extent in nature as a steel-gray metal that is insoluble in water. Arsenic in this discussion includes the element and any of its inorganic compounds excluding arsine. Arsenic trioxide (As_2O_3), the principal form in which the element is used, is frequently designated as arsenic, white arsenic, or arsenous oxide. Arsenic is present as an impurity in many other metal ores and is generally produced as arsenic trioxide as a by-product in the smelting of these ores, particularly copper. Most other arsenic compounds are produced from the trioxide.

Code Numbers: (Element) CAS 7440-38-2 RTECS CG0525000 UN 1558

Type of Compound/Label Designation: Poison.

Synonyms: None.

Potential Exposure: Arsenic compounds have a variety of uses. Arsenates and arsenites are used in agriculture as insecticides, herbicides, larvicides, and pesticides. Arsenic trichloride is used primarily in the manufacture of pharmaceuticals. Other arsenic compounds are used in pigment production, the manufacture of glass as a bronzing or decolorizing agent, the manufacture of opal glass and enamels, textile printing, tanning, taxidermy, and antifouling paints. They are also used to control sludge formation in lubricating oils. Metallic

arsenic is used as an alloying agent to harden lead shot and in lead-base bearing materials. It is also alloyed with copper to improve its toughness and corrosion resistance.

EPA estimates that more than 6 million people living within 12 miles of major sources—copper, zinc, and lead smelters—may be exposed to 10 times the average U.S. atmospheric levels of arsenic. The agency says that 40,000 people living near some copper smelters may be exposed to 100 times the national atmospheric average.

Permissible Exposure Limits in Air: The Federal standard for arsenic and its compounds was previously 0.5 mg/m^3 of air as As. In 1973, NIOSH proposed (1) the lower recommended standard of 0.05 mg As/m^3 of air determined as a time-weighted average (TWA) exposure for up to a 10-hour workday, 40-hour workweek. Then, in November 1975, OSHA proposed a workplace exposure limit for inorganic arsenic at 4 μg/m^3 (8-hour, TWA). The economic impact of such a standard has been assessed (2). The previous standard of 500 μg/m^3 for all forms of arsenic would remain in effect only for organic forms.

A 1975 NIOSH document (3) proposed that inorganic arsenic be controlled so that no worker is exposed to a concentration of arsenic in excess of 0.002 mg/m^3 (2.0 μg) as determined by a 15-minute sampling period. Finally in 1978 a standard was promulgated (4) which limits occupational exposure to inorganic arsenic to 10 μg/m^3 (μg/m^3 of air) based on an 8-hour time-weighted average.

The ACGIH (1983/84) TWA value for arsenic and soluble compounds (as As) is 0.2 mg/m^3. Arsenic trioxide production is categorized as "suspect of carcinogenic potential for man." As a first step toward regulating industrial emissions of inorganic arsenic, EPA has listed the substance as a hazardous air pollutant, as defined under the Clean Air Act and the agency's proposed airborne carcinogen policy.

Determination in Air: Collection on a filter and analysis by atomic absorption spectrometry (A-1). See also (A-10).

Permissible Concentration in Water: To protect freshwater aquatic life—total recoverable trivalent inorganic arsenic never to exceed 440 μg/ℓ. To protect saltwater aquatic life—508 μg/ℓ on an acute basis. To protect human health—preferably zero. A value of 0.02 μg/ℓ corresponds to a human health risk of 1 in 100,000. EPA has established a maximum arsenic level of 0.05 mg/ℓ. This does not address carcinogenicity and is under review.

Allowable arsenic levels in drinking water have also been set as follows (A-65):

South African Bureau of Standards	0.05 mg/ℓ
World Health Organization	0.05 mg/ℓ
Federal Republic of Germany (1975)	0.04 mg/ℓ

Determination in Water: Total arsenic may be determined by digestion followed by silver diethyldithiocarbamate; an alternative is atomic absorption; another is inductively coupled plasma (ICP) optical emission spectrometry.

Routes of Entry: Inhalation and ingestion of dust and fumes.

Harmful Effects and Symptoms: *Local* — Trivalent arsenic compounds are corrosive to the skin. Brief contact has no effect, but prolonged contact results in a local hyperemia and later vesicular or pustular eruption. The moist mucous membranes are most sensitive to the irritant action. Conjunctiva, moist and macerated areas of the skin, eyelids, the angles of the ears, nose, mouth, and respiratory mucosa are also vulnerable to the irritant effects. The wrists

are common sites of dermatitis, as are the genitalia if personal hygiene is poor. Perforations of the nasal septum may occur. Arsenic trioxide and pentoxide are capable of producing skin sensitization and contact dermatitis. Arsenic is also capable of producing keratoses, especially of the palms and soles. Arsenic has been cited as a cause of skin cancer, but the incidence is low.

Systemic – The acute toxic effects of arsenic are generally seen following ingestion of inorganic arsenical compounds. This rarely occurs in an industrial setting. Symptoms develop within ½ to 4 hours following ingestion and are usually characterized by constriction of the throat followed by dysphagia, epigastric pain, vomiting, and watery diarrhea. Blood may appear in vomitus and stools. If the amount ingested is sufficiently high, shock may develop due to severe fluid loss, and death may ensue in 24 hours. If the acute effects are survived, exfoliative dermatitis and peripheral neuritis may develop.

Cases of acute arsenical poisoning due to inhalation are exceedingly rare in industry. When it does occur, respiratory tract symptoms—cough, chest pain, dyspnea—giddiness, headache, and extreme general weakness precede gastrointestinal symptoms. The acute toxic symptoms of trivalent arsenical poisoning are due to severe inflammation of the mucous membranes and greatly increased permeability of the blood capillaries.

Chronic arsenical poisoning due to ingestion is rare and generally confined to patients taking prescribed medications. However, it can be a concomitant of inhaled inorganic arsenic from swallowed sputum and improper eating habits. Symptoms are weight loss, nausea and diarrhea alternating with constipation, pigmentation and eruption of the skin, loss of hair, and peripheral neuritis. Chronic hepatitis and cirrhosis have been described. Polyneuritis may be the salient feature, but more frequently there are numbness and paresthesias of "glove and stocking" distribution. The skin lesions are usually melanotic and keratotic and may occasionally take the form of an intradermal cancer of the squamous cell type, but without infiltrative properties. Horizontal white lines (striations) on the fingernails and toenails are commonly seen in chronic arsenical poisoning and are considered to be a diagnostic accompaniment of arsenical polyneuritis.

Inhalation of inorganic arsenic compounds is the most common cause of chronic poisoning in the industrial situation. This condition is divided into three phases based on signs and symptoms.

First Phase: The worker complains of weakness, loss of appetite, some nausea, occasional vomiting, a sense of heaviness in the stomach, and some diarrhea.

Second Phase: The worker complains of conjunctivitis, and a catarrhal state of the mucous membranes of the nose, larynx, and respiratory passages. Coryza, hoarseness, and mild tracheobronchitis may occur. Perforation of the nasal septum is common, and is probably the most typical lesion of the upper respiratory tract in occupational exposure to arsenical dust. Skin lesions, eczematoid and allergic in type, are common.

Third Phase: The worker complains of symptoms of peripheral neuritis, initially of hands and feet, which is essentially sensory. In more severe cases, motor paralyses occur; the first muscles affected are usually the toe extensors and the peronei. In only the most severe cases will paralysis of flexor muscles of the feet or of the extensor muscles of hands occur.

Liver damage from chronic arsenical poisoning is still debated, and as yet the question is unanswered. In cases of chronic and acute arsenical poisoning, toxic effects to the myocardium have been reported based on EKG changes. These findings, however, are now largely discounted and the EKG changes are ascribed to electrolyte disturbances concomitant with arsenicalism. Inhalation of arsenic trioxide and other inorganic arsenical dusts does not give rise to radiological evidence of pneumoconiosis. Arsenic does have a depressant effect upon the bone marrow, with disturbances of both erythropoiesis and myelopoiesis. Evidence is now available incriminating arsenic compounds as a cause of lung cancer as well as skin cancer.

Skin cancer in humans is causally associated with exposure to inorganic arsenic compounds in drugs, drinking water and the occupational environment. The risk of lung cancer was increased 4 to 12 times in certain smelter workers who inhaled high levels of arsenic trioxide. However, the influence of other constituents of the working environment cannot be excluded in these studies. Case reports have suggested an association between exposure to arsenic compounds and blood dyscrasias and liver tumours (14).

Points of Attack: Skin, eyes, respiratory system.

Medical Surveillance: In preemployment physical examinations, particular attention should be given to allergic and chronic skin lesions, eye disease, psoriasis, chronic eczematous dermatitis, hyperpigmentation of skin, keratosis and warts, baseline weight, baseline blood and hemoglobin count, and baseline urinary arsenic determinations. In annual examinations, the worker's general health, weight, and skin condition should be checked, and the worker observed for any evidence of excessive exposure or absorption of arsenic. Chest x-rays and lung function should be evaluated; analysis of urine, hair, or nails for arsenic should be made every 60 days as long as exposure continues. See also reference (10).

First Aid: Irrigate eyes with water. Wash contaminated areas of body with soap and water.

Personal Protective Methods: Workers should be trained in personal hygiene and sanitation, the use of personal protective equipment, and early recognition of symptoms of absorption, skin contact irritation, and sensitivity. With the exception of arsine and arsenic trichloride, the compounds of arsenic do not have odor or warning qualities. In case of emergency or areas of high dust or spray mist, workers should wear respirators that are supplied-air or self-contained positive-pressure type with fullface mask. Where concentrations are less than 100 x standard, workers may be able to use halfmask respirators with replaceable dust or fume filters. Protective clothing, gloves, goggles and a hood for head and neck should be provided. When liquids are processed, impervious clothing should be supplied. Clean work clothes should be supplied daily and the workers should shower prior to changing to street clothes.

Respirator Selection: See reference (1).

Disposal Method Suggested (A-31): Arsenic—elemental arsenic wastes should be placed in long-term storage or returned to suppliers or manufacturers for reprocessing. Arsenic pentaselenide—wastes should be placed in long-term storage or returned to suppliers or manufacturers for reprocessing. Arsenic trichloride—hydrolyze to arsenic trioxide utilizing scrubbers for hydrogen chloride abatement. The trioxide may then be placed in long-term storage. Arsenic trioxide—long-term storage in large siftproof and weatherproof silos. This compound may also be dissolved, precipitated as the sulfide and returned to the suppliers (A-38).

APPENDIX B

ENVIRONMENTAL AUDIT, INC.®

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

ACCIDENT REPORT FORM

DATE PREPARED_____ EAI PROJECT NO._____

PREPARED BY_____

_____

_____

NAME OF INJURED OR ILL EMPLOYEE_____

SOCIAL SECURITY NUMBER_____

DATE OF ACCIDENT_____ TIME OF ACCIDENT_____

EXACT LOCATION OF ACCIDENT_____

_____

_____

_____

_____

_____

NARRATIVE DESCRIPTION OF ACCIDENT_____

_____

_____

_____

_____

_____

_____

_____

_____

NATURE OF INJURY OR ILLNESS (BE AS SPECIFIC AS POSSIBLE AND INCLUDE PART OF BODY INVOLVED)_____

_____

_____

_____

_____

_____

_____

_____

_____

LOST TIME: NO____ YES____: IF YES - INDICATE TIME LOST_____

_____

CORRECTIVE ACTION TAKEN_____

_____

_____

_____

_____

CORRECTIVE ACTION WHICH REMAINS TO BE TAKEN (BY WHOM AND WHEN)

_____

_____

_____

_____

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE, CORRECT AND ACCURATE.

NAME_____DATE_____

TITLE_____SIGNATURE_____

SAB:ARF

APPENDIX B: Boring Logs

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-1

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						SM	0-0.3' CONCRETE
0.3							
5				0850	1		4-6' SILTY SAND, dark reddish brown, very fine sand, moderately moist, loose.
10				0910	1.8		9-11' SILTY SAND, dark brown, very fine sand, wet, loose, slight hydrocarbon odor.
11.0						SW	
15				0915	9		14-16' SAND, brown, fine to medium, well graded, wet, loose, slight hydrocarbon odor.
20				0925	5.1		19-21' SAND, brown, fine to medium, well graded, rare gravel, wet, loose.
25				0935	1.5		24-26' SAND, brown, fine to medium, well graded, rare gravel, moist to wet, loose.
26.0							

NOTES:
TD Drilled 26 feet. TD sampled 26 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-2

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						SM	0.3 0-0.3' CONCRETE
5				1010	1		4-6' SILTY SAND, dark reddish brown, very fine sand, moderately moist, loose.
10				1015	1		9-11' SILTY SAND, dark brown, very fine sand, wet, loose.
15				1020	1	SP	14.5 14-14.5' SILTY SAND, dark brown, very fine, poorly graded, wet, loose. 14.5-16' SAND, blackish brown, fine to medium, poorly graded, sub angular, moderate moisture, loose.
20				1025	14	SM	19-21' SAND, whitish black, fine to medium, poorly graded, sub angular, moderate moisture, loose. 21.0
25				1030	2		24-26' SILTY SAND, brown, rare clay, dry, loose. 26.0

NOTES:
TD Drilled 26 feet. TD sampled 26 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-3

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0							
						SM	0-0.7' CONCRETE
0.7							
5				1120	0.4		4-6' SILTY SAND, reddish brown, very fine sand, moist, loose.
6.0						SP	
10				1130	1.7		9-11' SAND, dark brown, fine, poorly graded, angular, moist, loose.
15				1140	1.3		14-16' SAND, brown, medium to fine, poorly graded, angular, moderately moist, loose.
20				1150	2.2		19-21' SAND, dark brown, medium, poorly graded, moist, loose.
25				1200	1.3		24-26' SAND, brown, medium to coarse, poorly graded, moderately moist, loose.
26.0							

NOTES:
TD Drilled 26 feet. TD sampled 26 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-4

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0							
						ML	0-0.7' CONCRETE
0.7							
5				1230	1		4-6' SILT, reddish brown, rare clay, moderately moist, loose.
6.0						SP	
10				1240	1		9-11' SAND, dark brown, fine, poorly graded, angular, moist, loose.
15				1250	0.8		14-16' SAND, brown, fine to medium, poorly graded, angular, moderately moist, loose.
20				1300	1.3		19-21' SAND, brown, medium to coarse, poorly graded, moderately moist, loose.
25				1320	1.0		24-26' SAND, brown, coarse, poorly graded, dry, loose.
26.0							

NOTES:
TD Drilled 26 feet. TD sampled 26 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-5

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness
0						ML	0-0.5' CONCRETE
5				1330	1.1		4-6' CLAYEY SILT, reddish brown, micaceous, moist, loose.
10				1345	0.8		9-11' CLAYEY SILT, reddish brown, micaceous, moist, loose.
15				1400	0.6	15.5 SP	14-15.5' CLAYEY SILT, reddish brown, micaceous, moist, loose. 15.5-16' SAND, whitish brown, fine to medium, poorly graded, angular dry, loose.
20				1410	0.8	21.0	19-21' SAND, whitish brown, fine to medium, poorly graded, angular, dry, loose.
25							

NOTES:
TD Drilled 21 feet. TD sampled 21 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-6

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/29/94 COMPLETION DATE: 11/29/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						ML	0-0.3' ASPHALT
0.3							
5				1500	7.2		4-6' CLAYEY SILT, reddish brown, micaceous, moist, dense.
10				1510	6.4		9-11' CLAYEY SILT, brown, moist, moderately dense, slight odor.
15				1520	3.8		14-15.5' SILT, brown, rare clay, rare sand, moist, loose, odor.
15.5						SP	15.5-16' SAND, whitish black brown, fine to medium, poorly graded, angular, moderately moist, loose, odor.
20				1530	3		19-21' SAND, whitish black brown, fine to medium, poorly graded, angular, moderately moist, loose.
25				1540	9		24-26' SAND, whitish brown, fine to medium, poorly graded, angular, dry, loose.
26.0							

NOTES:
TD Drilled 26 feet. TD sampled 26 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/29/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-7

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 21.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0				0740	0.9	CL	0-0.3' ASPHALT 0.3-4' SILTY CLAY, dark brown, mottled black, moderately moist, compact.
5						6.0 ML	4-6' SILTY CLAY, reddish brown, moderately moist, compact.
				0744	0.9		6-12' SANDY SILT, reddish brown, fine sand, moderately moist, moderately dense.
10							
							12-15.5' SANDY SILT, reddish brown, fine sand, moderately moist, moderately dense.
15				0800	8	15.5 SP	15.5-16' SAND, whitish black, fine to medium, poorly graded, angular moderately moist, moderately dense. 16-24' SAND, whitish black, fine to medium, poorly graded, angular moderately moist, moderately dense.
20							
				0830	2		24-28' SAND, whitish black, fine to medium, poorly graded, angular moderately moist, moderately dense.
25							

Continued Next Page

NOTES:
Continous sampling using a macro core to a depth of 32 feet. TD Drilled 50 feet. TD sampled 50 feet. Ground water encountered at approximately 48 feet. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-7

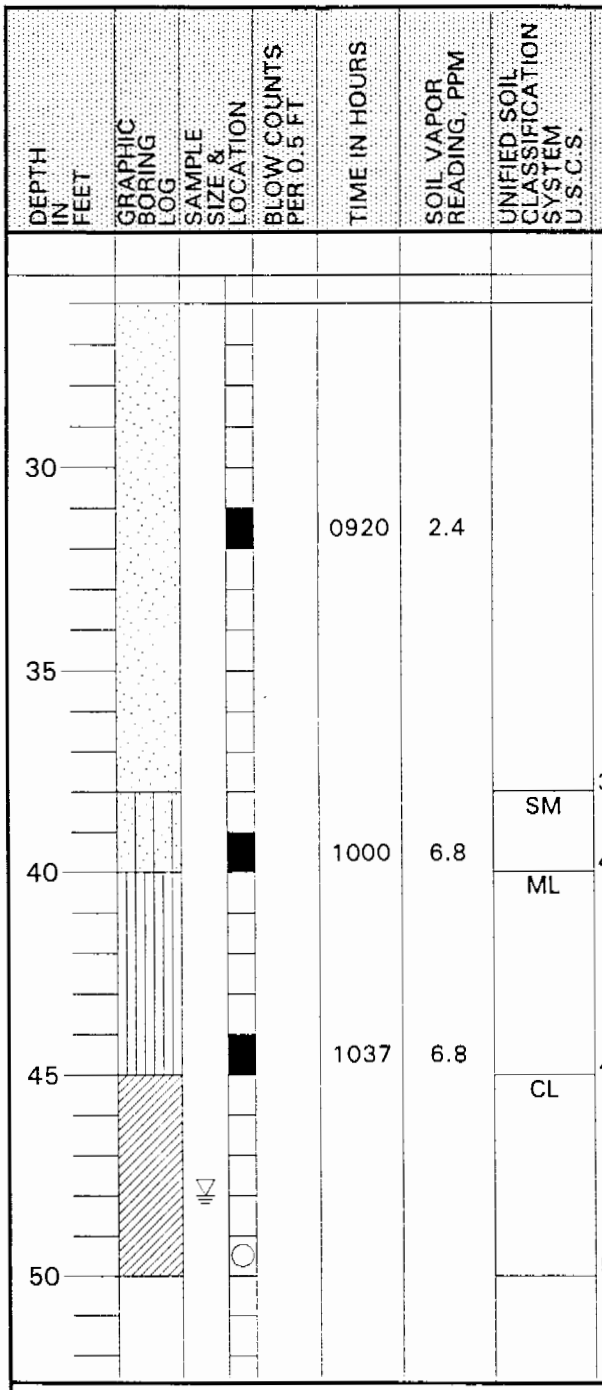
SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 21.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94



DESCRIPTION

In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness

28-30' SAND, whitish black, fine to medium, poorly graded, angular, moderately moist, moderately dense.

30-32' SAND, whitish brown, fine to medium, poorly graded, angular, rare gravel, high quartz content, moderately moist, loose.

32-38' SAND, whitish black, fine to medium, poorly graded, angular, moist, moderately dense.

38-40' SILTY SAND, brown, fine, micaceous, moist, moderately compact.

40-45' CLAYEY SILT, reddish brown, micaceous, moist, dense.

45-50' SILTY CLAY, reddish brown, micaceous, saturated, compact, stiff.

NOTE: Ground water rose in the borehole to 42-43' as observed on the drive rods.

NOTES:
Continous sampling using a macro core to a depth of 32 feet. TD Drilled 50 feet. TD sampled 50 feet. Ground water encountered at approximately 48 feet. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-8

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.		DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						CL	0.3	0-0.3' ASPHALT
5				1140	10	ML	6.0	4-6' SILTY CLAY, reddish brown, micaceous, moderately moist, dense.
10				1148	7.5	SP	11.0	9-11' CLAYEY SILT, reddish brown, moderately moist, moderately dense.
15				1200	3.5			14-15' SAND, brown, very fine, poorly graded, moderately moist, loose. 15-16' SAND, whitish brown, fine to medium, poorly graded, moderately moist, loose.
20				1205	3		21.0	19-21' SAND, whitish brown, fine to medium, poorly graded, moderately moist, loose.
25								

NOTES:
TD Drilled 21 feet. TD sampled 21 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-9

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						ML	0.3 0-0.3' CONCRETE
5				1230	5	CL	6.0 4-6' CLAYEY SILT, stained black, moderately moist, dense, strong odor.
10				1235	48	ML	11.0 9-11' CLAY, stained black, moderately moist, stiff, strong odor.
15				1240	30	SP	16.0 14-16' CLAYEY SILT, stained black, moderately moist, dense, strong odor.
20				1245	20.6		19-21' SAND, stained black, medium, poorly graded, moderately moist, moderately dense.
25				1250	15		24-25.5' SAND, whitish black, medium, poorly graded, moderately moist, moderately dense. 25.5-26' SAND, brown, medium, poorly graded, moderately moist, moderately dense.

Continued Next Page

NOTES:
TD Drilled 31 feet. TD sampled 31 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-9

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness
30				1300	16		29-31' SAND, brown, medium, poorly graded, moderately moist, moderately dense.
						31.0	
35							
40							
45							
50							

NOTES:
TD Drilled 31 feet. TD sampled 31 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-10

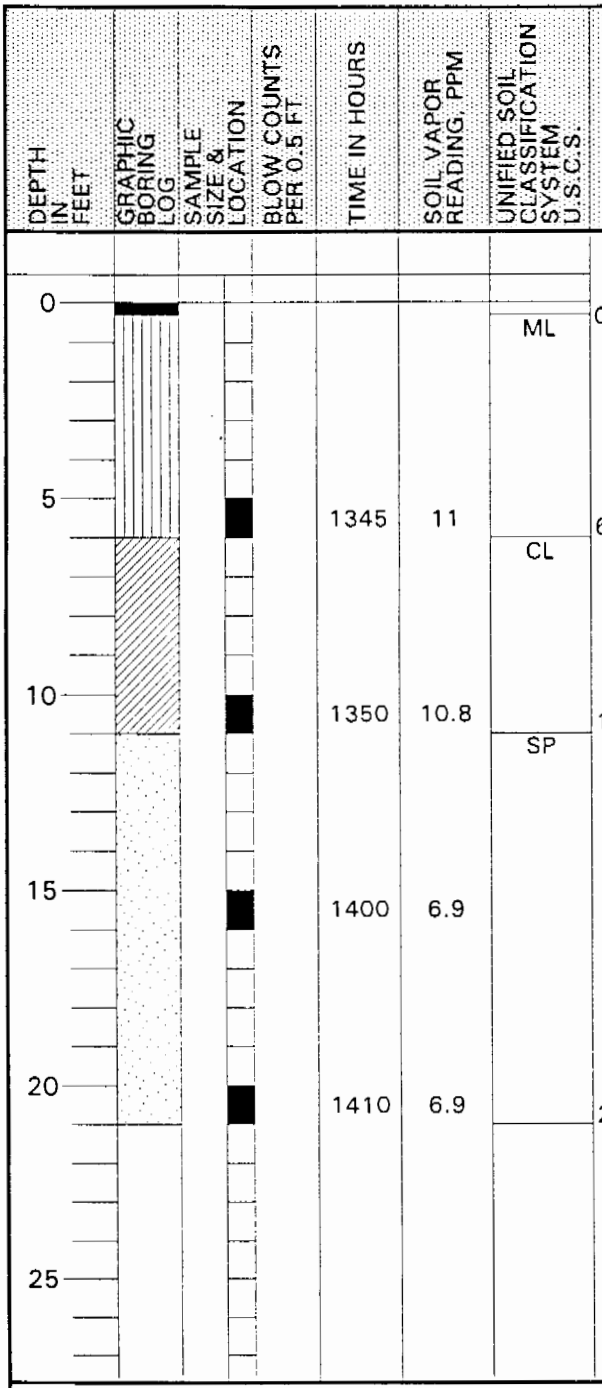
SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94



	DESCRIPTION
	In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness
0.3	0-0.3' ASPHALT
	4-6' CLAYEY SILT, reddish brown, micaceous, moderately moist, moderately loose.
6.0	
	9-11' CLAY, rare fine sand, reddish brown, micaceous, moderately moist, compact.
11.0	
	14-16' SAND, whitish black, medium, poorly graded, angular, moderately moist, loose.
	19-21' SAND, whitish black, medium, poorly graded, angular, moderately moist, loose.
21.0	

NOTES:
TD Drilled 21 feet. TD sampled 21 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-11

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.		DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						CL	0.3	0-0.3' ASPHALT
5				1420	6.7	ML	6.0	4-6' SILTY CLAY, reddish brown, micaceous, moderately moist, compact to very stiff.
10				1430	5.3			9-11' CLAYEY SILT, rare fine sand, brown, moderately moist, compact.
15				1440	10		16.0	14-16' SANDY SILT, brown, very fine sand, moderately moist, very compact.
20								
25								

NOTES:
TD Drilled 16 feet. TD sampled 16 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-12

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 11/30/94 COMPLETION DATE: 11/30/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						ML	0-0.5' ASPHALT
0.5							
5				1445	1		4-6' CLAYEY SILT, reddish brown, micaceous, dry, compact.
10				1450	1		9-11' CLAYEY SILT, reddish brown, micaceous, dry, compact.
11.0						SP	
15				1500	9.6		14-16' SAND, whitish black, fine to medium, poorly graded, angular, dry, loose.
20				1510	1		19-21' SAND, whitish black, fine to medium, poorly graded, angular, dry, loose.
21.0							
25							

NOTES:
TD Drilled 21 feet. TD sampled 21 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: CPD DATE: 11/30/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-14

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.		DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						CL	0.3	0-0.3' ASPHALT
5				0720	5.2			4-6' SILTY CLAY, reddish brown, moist, compact, slight odor.
10				0735	6.6			9-11' SILTY CLAY, reddish brown, moist, compact, slight odor.
						SP	11.0	
15				0745	5.0			14-16' SAND, reddish brown, fine to medium, poorly graded, angular, moist, loose, slight odor.
						SW	16.0	
20				0755	6.0			19-21' SAND, light brown, well graded, moist, loose, musty odor.
25				0810	5.7			24-26' SAND, light brown, well graded, moist, loose, musty odor.
						SP	26.0	

Continued Next Page

NOTES:
TD Drilled 46 feet. TD sampled 46 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-14

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
30				0830	6.7	CL	29-31' SAND, light brown, fine to medium, rare gravel, moderately moist, moderately compact.
31.0							
							31-36' SILTY CLAY, brownish yellow, moist, dense.
35				0845	7.8	SP	
36.0							
							39-41' SAND, light brown, fine to medium, poorly graded, angular, moist, loose.
40				0920	5.0		
44.0						CL	
							44-46' CLAY, brownish green, rare fine sand, very moist, moderately dense.
45				0950	6.7		
46.0							
50							

NOTES:
TD Drilled 46 feet. TD sampled 46 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-15

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.		DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						CL	0.3	0-0.3' ASPHALT
5				1015	9.2			4-6' SILTY CLAY, reddish brown, moist, very compact.
10				1030	4.6			9-11' SILTY CLAY, reddish brown, moist, loose.
						SP	11.0	
15				1040	5.2			14-16' SAND, reddish brown, fine to medium, poorly graded, angular, moist, loose.
20				1055	4.9			19-21' SAND, light brown to tan, fine to medium, poorly graded, moist, loose.
25				1120	8.3			24-26' SAND, light brown to tan, fine to medium, poorly graded, moist, loose.

Continued Next Page

NOTES:
TD Drilled 46 feet. TD sampled 46 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-15

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
30				1140	8.2	CL	29-31' SAND, light brown to tan, fine to medium, poorly graded, moist, loose.
31.0							
35				1205	10.4		34-39' SILTY CLAY, grayish brown, moist, dense.
39.0						SP	39-41' SAND, light brown, fine to medium, poorly graded, angular, rare gravel, moist, loose.
40				1230	6.8		
42.0						CL	
45				1300	1		44-46' CLAY, brownish green, rare fine sand, very moist, dense.
46.0							
50							

NOTES:
TD Drilled 46 feet. TD sampled 46 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-16

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.		DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						SP	0.3	0-0.3' CONCRETE
5				1345	12.2	ML	6.0	4-6' SAND, light brown, fine to medium, poorly graded, moderately moist, loose.
10				1355	6.8		11.0	9-11' SILT, reddish brown, rare clay, moderately moist, moderately dense.
15								
20								
25								

NOTES:
TD Drilled 11 feet. TD sampled 11 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

GRAPHIC GEOTECHNICAL BORING LOG

CLIENT: Larry Patsouras PROJECT NO.: 1576 DRILL HOLE: E-17

SITE LOCATION: 11630-11700 Burke Street, Santa Fe Springs, CA 90670

DRILLING CO: Drill International TYPE OF RIG: Geoprobe w/250 4x4

DRILLING METHOD/EQUIPMENT: Geoprobe GH-40 HOLE DIAMETER: 1.5"

DRIVE WEIGHT/HEIGHT OF DROP: 22000 lbs/bl REFERENCE OR DATUM: Ground Level

START DATE: 12/1/94 COMPLETION DATE: 12/1/94

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION (In Following Order: LITHOLOGY, color, grain size, sorting, angularity, fossils, consistency, wetness)
0						CL	0-0.5' CONCRETE
0.5							
5				1405	8.6	SM	4-6' SILTY CLAY, reddish brown, micaceous, moderately moist, dense.
6.0							
10				1415	4.2	SP	9-11' SILTY SAND, reddish brown, fine sand, moderately moist, moderately dense.
11.0							
15				1420	6		14-16' SAND, brown, very fine, poorly graded, moderately moist, loose.
20				1430	6.2		19-21' SAND, brown, medium, poorly graded, moderately moist, loose.
21.0							
25							

NOTES:
TD Drilled 21 feet. TD sampled 21 feet. No ground water encountered. No caving.

ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: EHL DATE: 12/01/94 APPROVED BY: EHL RCE#: 24274

LITHOLOGIC BORING LOG

CLIENT: Larry Patsouras **EAI PROJECT NO.:** 1576 **DRILL HOLE:** MW-1
SITE LOCATION: 11700 Burke Street, Santa Fe Springs, CA 90670
DRILLING CO: ABC Liovin Drilling **TYPE OF RIG:** CME 75
DRILLING METHOD/EQUIPMENT: Hollow Stem Auger **DRIVE WEIGHT:** 140 lbs. at 30"
HOLE DIAMETER: 8 inches **REFERENCE OR DATUM:** Ground Surface
START DATE: October 3, 1995 **COMPLETION DATE:** October 3, 1995
LOGGED BY: SAB **APPROVED BY:** EHL RCE NO. 24274

DEPTH INTERVAL IN FEET	BLOW COUNTS PER 0.5 FEET	TIME	TLV SOIL VAPOR READING (ppm)	UNIFIED SOIL CLASS SYSTEM	DESCRIPTION
0-0.3"					ASPHALT
4-5.5'	9/15/18	08:25	95	CL	SILTY CLAY, reddish brown, moist, slight hydrocarbon odor.
9-10.5'	3/7/6	08:30	110	CL	SILTY CLAY, reddish brown, moist, no hydrocarbon odor.
14-15.5'	5/10/15	08:35	25	SP	SAND, tan, fine to medium, moist, slight hydrocarbon odor.
19-20.5'	6/25/19	08:40	98	SP	SAND, tan, fine to medium, moist, no hydrocarbon odor.
24-25.5'	18/30/50	08:45	95	SP	SAND, tan, coarse, some gravel, moist, no hydrocarbon odor.
29-30.5'	23/31/47	08:50	110	SP	SAND, reddish brown, coarse, some gravel, moist, no hydrocarbon odor.
34-35.5'	20/36/37	08:55	110	CL	SILTY CLAY, reddish brown, moist, no hydrocarbon odor.
40-40.5'	7/31/50	09:05	110	SP	SAND, tan, coarse, some gravel, saturated, no hydrocarbon odor.
44-45.5'	6/9/11	09:10	95	CL	CLAY, brown, some fine sand, saturated, no hydrocarbon odor.

NO ANALYSES of SOIL samples

LITHOLOGIC BORING LOG

CLIENT: Larry Patsouras **EAI PROJECT NO.:** 1576 **DRILL HOLE:** MW-1
SITE LOCATION: 11700 Burke Street, Santa Fe Springs, CA 90670
DRILLING CO: ABC Liovin Drilling **TYPE OF RIG:** CME 75
DRILLING METHOD/EQUIPMENT: Hollow Stem Auger **DRIVE WEIGHT:** 140 lbs. at 30"
HOLE DIAMETER: 8 inches **REFERENCE OR DATUM:** Ground Surface
START DATE: October 3, 1995 **COMPLETION DATE:** October 3, 1995
LOGGED BY: SAB **APPROVED BY:** EHL RCE NO. 24274

DEPTH INTERVAL IN FEET	BLOW COUNTS PER 0.5 FEET	TIME	TLV SOIL VAPOR READING (ppm)	UNIFIED SOIL CLASS SYSTEM	DESCRIPTION
50-55'				SP	SAND, tan, fine, saturated, no hydrocarbon odor.

NOTES: GROUND WATER WAS ENCOUNTERED AT 40 FEET BGS.

THIS BORING WAS CONVERTED IN WELL MW-1 (SEE MW-1 WELL CONSTRUCTION DETAILS FOR SPECIFICS)

ABC STAFF: DAVE MOLANO (DRILLER), CHUCK PARRA AND RAMON SANCHEZ (HELPERS)

THIS BORING LOG REPRESENTS CONDITIONS ONLY AT TIME AND LOCATION INDICATED. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND TIMES.

BHM:WORD:1576-MW1

APPENDIX C: Chain of Custody Record Forms And Laboratory Reports

RED = BOTTOM (BLACK = TOP) 504

ENVIRONMENTAL AUDIT, INC.®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125

☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ ________ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME: SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO. 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): [signature] CHRIS DSA

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	GLASS	PLASTIC	BRASS/SS TUBE	TPH-D 8015M	TPH-G/8015M (1:1 GAS / DIESEL)	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP-6010			NUMBER OF CONTAINERS
E-1 @ 4-6	11/29/94	0850		/	Soil Sample		/			/	/	/												1
E1 @ 9-11	↓	0910		/	↓		/			/	/	/												1
E1 @ 14-16	↓	0915		/	↓		/			/	/	/												1
E-1 @ 19-21	↓	0925		/	↓		/			/	/	/												1
E-1 @ 24-26	↓	0935		/	↓		/			/	/	/												1
E-2 @ 4-6	↓	1010		/	↓		/			/	/	/												1
E-2 @ 9-11	↓	1015		/	↓		/			/	/	/												1

TOTAL NUMBER OF CONTAINERS: 7

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
[signature]	11/29/94 1700	[signature]	[signature]	11/30/94	
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA: FEDEX ☐ UPS ☐ AIRBORNE ☐ HAND ☒ AIRFREIGHT ☐ ________ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name) [signature] C. [signature]

LAB: CalScience

DATE/TIME: 11/30/94 8:05

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PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.	PROJECT NAME	PROJECT MANAGER
1576	11630-11700 Burke Street Santa Fe Springs, CA	Ed Leonhardt

SAMPLER (Signature with Printed Name)
CHRIS D

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	GLASS	PLASTIC	BRASS/ SS TUBE	TPH-D 8015M	TPH-G 8015M 1:1 GAS/DIESEL	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS	REMARKS
E-2 @ 14-16	11/29/94	1020		✓	Soil Sample		✓			✓		✓										1	Call Chris d'Sa @ ext. 233 at EAI if any questions
E-2 @ 19-21		1025		✓			✓			✓		✓										1	
E-2 @ 24-26		1030		✓			✓			✓		✓										1	
E-3 @ 4-6		1120		✓			✓			✓		✓										1	
E3 @ 9-11		1130		✓			✓			✓		✓										1	
E-3 @ 14-16		1140		✓			✓			✓		✓										1	
E-3 @ 19-21	↓	1150		✓	↓		✓			✓		✓										1	
																					TOTAL NUMBER OF CONTAINERS	7	

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/29/94 1700			0525 11/30/94	
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:	SHIPPED BY: (Signature/Name)	COURIER: (Signature/Name)	RECEIVED FOR BY: (Signature/Name)	DATE/TIME
FEDEX ☐ UPS ☐ AIRBORNE ☐ HAND ☒ AIRFREIGHT ☐ _____ ☐	AIRBILL #:		LAB: CalScience	11/30/94 8:05

ENVIRONMENTAL AUDIT, INC.®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
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Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.	PROJECT NAME
1576	11630-11700 Burke Street Santa Fe Springs, CA

SAMPLER (Signature with Printed Name)
CHRIS D'SA

PROJECT MANAGER
Ed Leonhardt

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M 1:1 GAS/DIESEL	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS	REMARKS
15	E-3 @ 24-26	11/29/94	1200		✓	Soil Sample		✓			✓		✓										1	Call Chris d'Sa @ ext. 233 at EAI if any questions
16	E-4 @ 4-6	↓	1230		✓	↓		✓			✓		✓										1	
17	E-4 @ 9-11		1240		✓			✓			✓		✓										1	
18	E-4 @ 15-16		1250		✓			✓			✓		✓										1	
19	E-4 @ 19-21		1300		✓			✓			✓		✓										1	
20	E-4 @ 24-26		1320		✓			✓			✓		✓										1	
		↓			✓																			

TOTAL NUMBER OF CONTAINERS 6

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/29/94 1700			11/30/94 0830	
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)	COURIER: (Signature/Name)	RECEIVED FOR BY: (Signature/Name)	DATE/TIME
AIRBILL #:		LAB: CalScience	11/30/94 805

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Planning, Environmental Analyses and Hazardous Substances Management and Remediation

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Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS D'SA

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
21	E-5 @ 4-6	11/29/94	1330		/	Soil Sample		/				/		/									1
22	E-5 @ 9-11		1345		/			/				/		/									1
23	E-5 @ 14-16		1400		/			/				/		/									1
24	E-5 @ 19-21		1410		/			/				/		/									1
	~~E-5 @ 24-26~~		~~1420~~		/																		
25	E-6 @ 4-6		1500		/			/				/		/									1
26	E-6 @ 9-11	↓	1510		/	↓		/				/		/									1

TOTAL NUMBER OF CONTAINERS: 6

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/29/94 1200			11/30/94 0755	
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: CalScience

DATE/TIME: 11/30/94 9:05

Rev 10/94 C-O-C.PM5

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Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
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Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS D'SA

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
E-6 @ 14-16	11/29/94	1520		/	Soil Sample		/				/		/									1
E-6 @ 19-21	↓	1530		/	↓			/			/		/									1
E-6 @ 24-26	↓	1540		/	↓		/				/		/									1
				/																		
				/																		
				/																		
				/																		

TOTAL NUMBER OF CONTAINERS: 3

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/29/94 12:00			11/30/94 0835	
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: CalScience

DATE/TIME: 11/30/94 8:05

Rev 10/94 C-O-C FMS

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: 11/30/94
	Date Analyzed: 11/30/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 418.1
RE: 11630-11700 Burke Street/1576	Page 1 of 1

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-1@ 9-11	22	5
E-1@ 14-15	32	5
E-1@ 19-21	9	5
E-5@ 4-6	ND	5
E-5@ 9-11	ND	5
E-5@ 14-16	ND	5
E-5@ 19-21	11	5
E-6@ 4-6	11	5
E-6@ 9-11	ND	5
E-6@ 14-16	ND	5
E-6@ 19-21	ND	5
E-6@ 24-26	ND	5
Method Blank	ND	5

Reviewed and Approved William H. Christensen on 12/07/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/29/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	12/07/94
	Date Analyzed:	12/07/94
	Work Order No.:	94-11-504
Attn: Ed Leonhardt	Method:	EPA 418.1
RE: 11630-11700 Burke Street/1576	Page 1 of 1	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-1@ 24-26	15	5
Method Blank	ND	5

Reviewed and Approved William H. Christensen on 12/08/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 1 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-1@ 4-6		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-1@ 9-11		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-1@ 14-16		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	48.1	10

Det. Lim. Limits

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 2 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-1@ 19-21		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-1@ 24-26		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-2@ 4-6		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 3 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-2@ 9-11		H: D L
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-2@ 14-16		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-2@ 19-21		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 4 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-2@ 24-26		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-3@ 4-6		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-3@ 9-11		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 5 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-3@ 14-16		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-3@ 19-21		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-3@ 24-26		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 6 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-4@ 4-6		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-4@ 9-11		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-4@ 15-16		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

H, PL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/29/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/05-06/94
		Work Order No.:	94-11-504
Attn: Ed Leonhardt		Method:	EPA 8020
RE: 11630-11700 Burke Street/1576		Page 7 of 7	

All concentrations are reported in µg/kg (ppb).

Analyte	Concentration	Reportable Limit
Sample Number: E-4@ 19-21		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: E-4@ 24-26		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10
Sample Number: Method Blank		
Benzene	ND	5
Toluene	ND	5
Ethylbenzene	ND	5
Total Xylenes	ND	10

Reviewed and Approved William H. Christensen on 12/07/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.
1000-A Ortega Way
Placentia, CA 92670-7125

Attn: Ed Leonhardt
RE: 11630-11700 Burke Street/1576

Date Sampled: 11/29/94
Date Received: 11/30/94
Date Extracted: P/T
Date Analyzed: 11/30/94-12/01/94
Work Order No.: 94-11-504
Method: EPA 8240A

All concentrations are reported in µg/kg (ppb).

Sample Number: E-5@ 4-6

H; DC

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 2 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-5@ 9-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 3 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-5@ 14-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 4 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-5@ 19-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

4, DL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 5 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-6@ 4-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

HiDL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 6 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-6@ 9-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

HiDL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 7 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-6@ 14-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

HI DL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 8 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-6@ 19-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/29/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 11/30/94-12/01/94
	Work Order No.: 94-11-504
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 9 of 10

All concentrations are reported in µg/kg (ppb).

Sample Number: E-6@ 24-26

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.
1000-A Ortega Way
Placentia, CA 92670-7125

Attn: Ed Leonhardt
RE: 11630-11700 Burke Street/1576

Date Sampled: 11/29/94
Date Received: 11/30/94
Date Extracted: P/T
Date Analyzed: 11/30/94-12/01/94
Work Order No.: 94-11-504
Method: EPA 8240A

All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Reviewed and Approved  on 12/02/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/29/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	11/30/94
	Date Analyzed:	11/30/94-12/01/94
	Work Order No.:	94-11-504
Attn: Ed Leonhardt	Method:	EPA 8015M
RE: 11630-11700 Burke Street/1576	Page 1 of 2	

All total petroleum hydrocarbon concentrations are reported in mg/kg (ppm) using a 1:1 gasoline:diesel fuel mixture as a standard.

Sample Number	Concentration	Reportable Limit
E-1@ 4-6	ND	10
E-1@ 9-11	ND	10
E-1@ 14-16	ND	10
E-1@ 19-21	ND	10
E-1@ 24-26	ND	10
E-2@ 4-6	ND	10
E-2@ 9-11	ND	10
E-2@ 14-16	ND	10
E-2@ 19-21	ND	10
E-2@ 24-26	ND	10
E-3@ 4-6	ND	10
E-3@ 9-11	ND	10
E-3@ 14-16	ND	10
E-3@ 19-21	ND	10
E-3@ 24-26	ND	10
E-4@ 4-6	ND	10
E-4@ 9-11	ND	10
E-4@ 15-16	ND	10
E-4@ 19-21	ND	10
E-4@ 24-26	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/29/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	11/30/94
	Date Analyzed:	11/30/94-12/01/94
	Work Order No.:	94-11-504
Attn: Ed Leonhardt	Method:	EPA 8015M
RE: 11630-11700 Burke Street/1576	Page 2 of 2	

All total petroleum hydrocarbon concentrations are reported in mg/kg (ppm) using a 1:1 gasoline:diesel fuel mixture as a standard.

Sample Number	Concentration	Reportable Limit
Method Blank	ND	10

Reviewed and Approved  on 12/07/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8020

Environmental Audit, Inc.		Work Order No.:	94-11-504
Page 1 of 1		Date Analyzed:	12/06/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-1@ 4-6

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	101	97	39 - 150	4	0 - 25
Toluene	102	100	46 - 148	2	0 - 25
Ethylbenzene	107	104	32 - 160	3	0 - 25

Surrogate Recoveries (in %)

	S1		S1
94-11-504-1	94	94-11-504-11	98
94-11-504-2	99	94-11-504-12	95
94-11-504-3	134	94-11-504-13	103
94-11-504-4	98	94-11-504-14	93
94-11-504-5	102	94-11-504-15	99
94-11-504-6	96	94-11-504-16	98
94-11-504-7	97	94-11-504-17	98
94-11-504-8	100	94-11-504-18	94
94-11-504-9	93	94-11-504-19	95
94-11-504-10	99	94-11-504-20	94

	Acceptable Limits
S1 > 1,4-Bromofluorobenzene	50 - 140

Reviewed and approved: William H. Christensen on 12/07/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8240A

Environmental Audit, Inc.		Work Order No.:	94-11-504
Page 1 of 1		Date Analyzed:	11/30/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-5@ 19-21

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	98	110	37 - 151	12	0 - 25
Chlorobenzene	100	99	37 - 160	1	0 - 25
Toluene	110	100	47 - 150	10	0 - 25
1,1-Dichloroethene	100	110	59 - 155	10	0 - 25
Trichloroethene	100	120	71 - 157	18	0 - 25

Surrogate Recoveries (in %)

	S1	S2	S3
94-11-504-21	103	103	99
94-11-504-22	102	100	100
94-11-504-23	98	102	100
94-11-504-24	99	97	99
94-11-504-25	99	105	102
94-11-504-26	102	99	101
94-11-505-27	98	102	99
94-11-504-28	99	97	104
94-11-504-29	100	100	101

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: William H. Christensen on 12/07/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M - G&D

Environmental Audit, Inc.		Work Order No.:	94-11-504
Page 1 of 1		Date Analyzed:	12/01/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-2@ 19-21

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Petroleum Hydrocarbons	127	119	55 - 135	6	0 - 30

Reviewed and approved: William H. Christensen on 12/07/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Environmental Audit, Inc.		Work Order No.:	94-11-504
Page 1 of 1		Date Analyzed:	11/30/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-6@ 24-26

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	109	122	55 - 135	13	0 - 30

Reviewed and approved: William H. Christensen on 12/02/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Environmental Audit, Inc.		Work Order No.:	94-11-504
Page 1 of 1		Date Analyzed:	12/05/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 94-12-030-24

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	125	125	55 - 135	0	0 - 30

Reviewed and approved: _____ on 12/07/1994.

William H. Christensen
Deliverables Manager

11631 Seaboard Circle, Stanton, CA 90680 • TEL: (714) 895-5494 • FAX: (714) 894-7501

ENVIRONMENTAL AUDIT, INC.®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME: 2 Saples
SAME DAY ☐ 24hr ☒ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS DSA

PROJECT MANAGER: Ed Leonhardt

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS	REMARKS
1	E7@0-1	11/30/94	0740		/	Soil Sample		/				/		/									1	
2	E-7@7-8		0744		/			/				/		/									1	
3	E-7@15-16		0800		/			/				/		/									1	
4	E-7@23-24		0830		/			/				/		/									1	
5	E-7@31-32		0920		/			/				/		/									1	
6	E-7@39-40		1000		/			/				/		/									1	RUSH
7	E-7@44-45		1037		/			/				/		/									1	RUSH

TOTAL NUMBER OF CONTAINERS: 7

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/30/94 1700				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: Calscience

DATE/TIME: 11/30/94 1700

Rev 10/94 C-O-C.PMS

ENVIRONMENTAL AUDIT, INC.®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS DSA

PROJECT MANAGER: Ed Leonhardt

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS	REMARKS
8	E-7 @ 49-50	11/30/94	1108		✓	Soil Sample HOLD																		
9	E-8 @ 5-6		1140		✓			✓				✓		✓									1	* Analyze Red cap End
10	E-8 @ 10-11		1148		✓			✓				✓		✓									1	
11	E-8 @ 15-16		1200		✓			✓				✓		✓									1	
12	E-8 @ 20-21		1205		✓			✓				✓		✓									1	
13	E-9 @ 5-6		1230		✓			✓				✓		✓									1	* Analyze Red cap End
14	E-9 @ 10-11	↓	1235		✓			✓				✓		✓									1	

TOTAL NUMBER OF CONTAINERS: 6

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
[signature]	11/30/94 1700				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name) [signature]

LAB: CalScience

DATE/TIME: 11/30/94 1700

Rev 10/94 C-O-C.PMS

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Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS DSA

PROJECT MANAGER: Ed Leonhardt

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION
15	E-9 @ 15-16	11/30/94	1240		✓	Soil Sample
16	E-9 @ 20-21		1245		✓	
17	E-9 @ 24-25		1250		✓	
18	E-9 @ 30-31		1300		✓	
19	E-10 @ 5-6		1345		✓	
20	E-10 @ 10-11		1350		✓	
21	E-10 @ 15-16'	↓	1400		✓	

CONTR TYPE: GLASS; PLASTIC; BRASS/SS TUBE

ANALYSES REQUESTED: TPH-D 8015M; TPH-G 8015M; TRPH 418.1; BTEX 8020; VOC 8240; EOC 8270; OIL & GREASE; CAM METALS TOT WET; LEAD; HVOC 8010; ORGNC PESTICIDES 8080; BENZENE; TOTAL LEAD ICP- 6010

NUMBER OF CONTAINERS: 1; 1; 1; 1; 1; 1; 1

TOTAL NUMBER OF CONTAINERS: 7

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/30/94 1700				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR LAB BY: (Signature/Name)

DATE/TIME: 11/30/94 1700

LAB: CalScience

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Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): CHRIS DSA

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
22	E10 @ 20-21	11/30/94	1410		✓	Soil Sample		✓				✓	✓										1
23	E-11 @ 5-6		1420		✓			✓				✓	✓										1
24	E-11 @ 10-11		1430		✓			✓				✓	✓										1
25	E-11 @ 15-16		1440		✓			✓				✓	✓										1
26	E-12 @ 5-6		1445		✓			✓				✓	✓										1
27	E-12 @ 10-11		1450		✓			✓				✓	✓										1
28	E-12 @ 15-16	↓	1500		✓	↓		✓				✓	✓										1
																						TOTAL NUMBER OF CONTAINERS	7

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
	11/30/94 1700				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: CalScience

DATE/TIME: 11/30/94 1700

Rev 10/94 C-O-C.PMS

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PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): Chris D'Sa

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
29 E-12@20-21	11/30/94	1510		/	Soil Sample		/				/		/									1
				/																		
				/																		
				/																		
				/																		
				/																		
				/																		

TOTAL NUMBER OF CONTAINERS: 1

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
Chris D'Sa	11/30/94 1700				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR LAB BY: (Signature/Name)

DATE/TIME: 11/30/94 1700

LAB: CalScience

Rev 10/94 C-O-C.PM5

Calscience Environmental Laboratories, Inc.

RECEIVED
DEC 14 1994
ENVIRONMENTAL AUDIT

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	12/01-02/94
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 418.1
RE: 11630-11700 Burke Street/1576		Page 1 of 2	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-7@ 0-1	2710	250
E-7@ 7-8	82	10
E-7@ 15-16	ND	5
E-7@ 23-24	ND	5
E-7@ 31-32	ND	5
E-7@ 39-40	13	5
E-7@ 44-45	ND	5
E-8@ 5-6	ND	5
E-8@ 10-11	ND	5
E-8@ 15-16	ND	5
E-8@ 20-21	ND	5
E-9@ 5-6	1350	25
E-9@ 10-11	18900	500
E-9@ 15-16	33000	1000
E-9@ 20-21	16500	500
E-9@ 24-25	15600	500
E-9@ 30-31	10900	500
E-10@ 5-6	10	5
E-10@ 10-11	ND	5
E-10@ 15-16	ND	5

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/30/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	12/01-02/94
	Date Analyzed:	12/01-02/94
	Work Order No.:	94-11-518
Attn: Ed Leonhardt	Method:	EPA 418.1
RE: 11630-11700 Burke Street/1576	Page 2 of 2	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-10@ 20-21	ND	5
E-10@ 5-6	ND	5
E-10@ 10-11	ND	5
E-10@ 15-16	ND	5
E-12@ 5-6	ND	5
E-12@ 10-11	ND	5
E-12@ 15-16	ND	5
E-12@ 20-21	ND	5
Method Blank #1	ND	5
Method Blank #2	ND	5
Method Blank #3	ND	5

Reviewed and Approved _____ on 12/08/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 1 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-8@ 20-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 2 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 5-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	50	1,1-Dichloroethene	ND	10
Benzene	ND	10	Trans-1,2-Dichloroethene	ND	10
Bromodichloromethane	ND	10	1,2-Dichloropropane	ND	10
Bromoform	ND	10	Cis-1,3-Dichloropropene	ND	10
Bromomethane	ND	20	Trans-1,3-Dichloropropene	ND	10
2-Butanone	ND	50	Ethylbenzene	ND	10
Carbon Disulfide	ND	50	2-Hexanone	ND	50
Carbon Tetrachloride	ND	10	Methylene Chloride	ND	20
Chlorobenzene	ND	10	4-Methyl-2-Pentanone	ND	50
Chloroethane	ND	10	Styrene	ND	50
2-Chloroethyl Vinyl Ether	ND	10	1,1,2,2-Tetrachloroethane	ND	10
Chloroform	ND	10	Tetrachloroethene	ND	10
Chloromethane	ND	20	Toluene	ND	10
1,3-Dichlorobenzene	ND	10	1,1,1-Trichloroethane	ND	10
1,4-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	10
1,2-Dichlorobenzene	ND	10	Trichloroethene	ND	10
Dibromochloromethane	ND	10	Trichlorofluoromethane	ND	20
Dichlorodifluoromethane	ND	20	Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	10	Vinyl Chloride	ND	20
1,2-Dichloroethane	ND	10	Total Xylenes	25	20

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/30/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 12/01-02/94
	Work Order No.: 94-11-518
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 3 of 19

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 10-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	50	1,1-Dichloroethene	ND	10
Benzene	ND	10	Trans-1,2-Dichloroethene	ND	10
Bromodichloromethane	ND	10	1,2-Dichloropropane	ND	10
Bromoform	ND	10	Cis-1,3-Dichloropropene	ND	10
Bromomethane	ND	20	Trans-1,3-Dichloropropene	ND	10
2-Butanone	ND	50	Ethylbenzene	384	10
Carbon Disulfide	ND	50	2-Hexanone	ND	50
Carbon Tetrachloride	ND	10	Methylene Chloride	ND	20
Chlorobenzene	ND	10	4-Methyl-2-Pentanone	ND	50
Chloroethane	ND	10	Styrene	ND	50
2-Chloroethyl Vinyl Ether	ND	10	1,1,2,2-Tetrachloroethane	ND	10
Chloroform	ND	10	Tetrachloroethene	61	10
Chloromethane	ND	20	Toluene	1450	10
1,3-Dichlorobenzene	ND	10	1,1,1-Trichloroethane	ND	10
1,4-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	10
1,2-Dichlorobenzene	ND	10	Trichloroethene	33	10
Dibromochloromethane	ND	10	Trichlorofluoromethane	ND	20
Dichlorodifluoromethane	ND	20	Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	10	Vinyl Chloride	ND	20
1,2-Dichloroethane	ND	10	Total Xylenes	3370	20

H
D.L

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 4 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	50	1,1-Dichloroethene	ND	10
Benzene	ND	10	Trans-1,2-Dichloroethene	ND	10
Bromodichloromethane	ND	10	1,2-Dichloropropane	ND	10
Bromoform	ND	10	Cis-1,3-Dichloropropene	ND	10
Bromomethane	ND	20	Trans-1,3-Dichloropropene	ND	10
2-Butanone	ND	50	Ethylbenzene	287	10
Carbon Disulfide	ND	50	2-Hexanone	ND	50
Carbon Tetrachloride	ND	10	Methylene Chloride	ND	20
Chlorobenzene	ND	10	4-Methyl-2-Pentanone	ND	50
Chloroethane	ND	10	Styrene	ND	50
2-Chloroethyl Vinyl Ether	ND	10	1,1,2,2-Tetrachloroethane	ND	10
Chloroform	ND	10	Tetrachloroethene	42	10
Chloromethane	ND	20	Toluene	1090	10
1,3-Dichlorobenzene	ND	10	1,1,1-Trichloroethane	ND	10
1,4-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	10
1,2-Dichlorobenzene	ND	10	Trichloroethene	23	10
Dibromochloromethane	ND	10	Trichlorofluoromethane	ND	20
Dichlorodifluoromethane	ND	20	Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	10	Vinyl Chloride	ND	20
1,2-Dichloroethane	ND	10	Total Xylenes	2610	20

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 5 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 20-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	7.5	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	59.0	5
Chloromethane	ND	10	Toluene	17.0	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	62.5	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 6 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 24-25

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	92.0	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 7 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-9@ 30-31

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	104	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 8 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-10@ 5-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	50	1,1-Dichloroethene	ND	10
Benzene	ND	10	Trans-1,2-Dichloroethene	ND	10
Bromodichloromethane	ND	10	1,2-Dichloropropane	ND	10
Bromoform	ND	10	Cis-1,3-Dichloropropene	ND	10
Bromomethane	ND	20	Trans-1,3-Dichloropropene	ND	10
2-Butanone	ND	50	Ethylbenzene	ND	10
Carbon Disulfide	ND	50	2-Hexanone	ND	50
Carbon Tetrachloride	ND	10	Methylene Chloride	ND	20
Chlorobenzene	ND	10	4-Methyl-2-Pentanone	ND	50
Chloroethane	ND	10	Styrene	ND	50
2-Chloroethyl Vinyl Ether	ND	10	1,1,2,2-Tetrachloroethane	ND	10
Chloroform	ND	10	Tetrachloroethene	ND	10
Chloromethane	ND	20	Toluene	ND	10
1,3-Dichlorobenzene	ND	10	1,1,1-Trichloroethane	ND	10
1,4-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	10
1,2-Dichlorobenzene	ND	10	Trichloroethene	ND	10
Dibromochloromethane	ND	10	Trichlorofluoromethane	ND	20
Dichlorodifluoromethane	ND	20	Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	10	Vinyl Chloride	ND	20
1,2-Dichloroethane	ND	10	Total Xylenes	ND	20

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-10@ 10-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	50	1,1-Dichloroethene	ND	10
Benzene	ND	10	Trans-1,2-Dichloroethene	ND	10
Bromodichloromethane	ND	10	1,2-Dichloropropane	ND	10
Bromoform	ND	10	Cis-1,3-Dichloropropene	ND	10
Bromomethane	ND	20	Trans-1,3-Dichloropropene	ND	10
2-Butanone	ND	50	Ethylbenzene	ND	10
Carbon Disulfide	ND	50	2-Hexanone	ND	50
Carbon Tetrachloride	ND	10	Methylene Chloride	ND	20
Chlorobenzene	ND	10	4-Methyl-2-Pentanone	ND	50
Chloroethane	ND	10	Styrene	ND	50
2-Chloroethyl Vinyl Ether	ND	10	1,1,2,2-Tetrachloroethane	ND	10
Chloroform	ND	10	Tetrachloroethene	ND	10
Chloromethane	ND	20	Toluene	ND	10
1,3-Dichlorobenzene	ND	10	1,1,1-Trichloroethane	ND	10
1,4-Dichlorobenzene	ND	10	1,1,2-Trichloroethane	ND	10
1,2-Dichlorobenzene	ND	10	Trichloroethene	ND	10
Dibromochloromethane	ND	10	Trichlorofluoromethane	ND	20
Dichlorodifluoromethane	ND	20	Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	10	Vinyl Chloride	ND	20
1,2-Dichloroethane	ND	10	Total Xylenes	ND	20

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-10@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-10@ 20-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-11@ 5-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-11@ 10-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-11@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-12@ 5-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-12@ 10-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-12@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-12@ 20-21

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

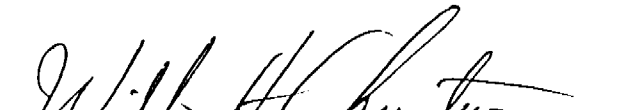
ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01-02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 19 of 19	

All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Reviewed and Approved  on 12/02/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	11/30/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 1 of 3	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 39-40

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	11/30/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 2 of 3	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 44-45

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

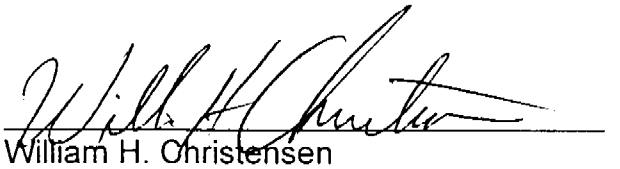
ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	11/30/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 3 of 3	

All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Reviewed and Approved  on 12/02/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 1 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 0-1

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 2 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 7-8

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 3 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 11/30/94
1000-A Ortega Way	Date Received: 11/30/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 12/01/94
	Work Order No.: 94-11-518
Attn: Ed Leonhardt	Method: EPA 8240A
RE: 11630-11700 Burke Street/1576	Page 4 of 9

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 23-24

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 5 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-7@ 31-32

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 6 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-8@ 5-6

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 7 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-8@ 10-11

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/01/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 8 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-8@ 15-16

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	11/30/94
1000-A Ortega Way		Date Received:	11/30/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02/94
		Work Order No.:	94-11-518
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 9 of 9	

All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Reviewed and Approved _____ on 12/07/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Environmental Audit, Inc. | Work Order No.: 94-11-518
Page 1 of 1 | Date Analyzed: 11/30/94-12/02/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 94-11-504-29

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	109	122	55 - 135	13	0 - 30

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-10@20-21

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	96	99	55 - 135	3	0 - 30

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-12@20-21

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	99	91	55 - 135	8	0 - 30

Reviewed and approved: William H. Christensen on 12/02/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8240A

Environmental Audit, Inc.		Work Order No.:	94-11-518
Page 1 of 1		Date Analyzed:	11/30/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 94-11-504-24

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	98	110	37 - 151	12	0 - 25
Chlorobenzene	100	99	37 - 160	1	0 - 25
Toluene	110	100	47 - 150	10	0 - 25
1,1-Dichloroethene	100	110	59 - 155	10	0 - 25
Trichloroethene	100	120	71 - 157	18	0 - 25

Surrogate Recoveries (in %)

	S1	S2	S3
94-11-518-1	102	102	96
94-11-518-2	100	102	98
94-11-518-3	101	103	99
94-11-518-4	108	99	106
94-11-518-5	103	101	109
94-11-518-6	99	98	97
94-11-518-7	101	100	99
94-11-518-9	105	101	106
94-11-518-10	104	102	107
94-11-518-11	101	99	100

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: _____ on 12/07/1994.

William H. Christensen
Deliverables Manager

11631 Seaboard Circle, Stanton, CA 90680 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8240A

Environmental Audit, Inc.		Work Order No.:	94-11-518
Page 1 of 1		Date Analyzed:	12/01/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-8@ 20-21

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	102	102	37 - 151	0	0 - 25
Chlorobenzene	100	101	37 - 160	1	0 - 25
Toluene	104	104	47 - 150	0	0 - 25
1,1-Dichloroethene	107	108	59 - 155	1	0 - 25
Trichloroethene	100	98	71 - 157	2	0 - 25

Surrogate Recoveries (in %)

	S1	S2	S3		S1	S2	S3
94-11-518-12	104	100	105	94-11-518-22	103	99	107
94-11-518-13	102	100	104	94-11-518-23	100	102	105
94-11-518-14	104	113	83	94-11-518-24	103	99	103
94-11-518-15	100	112	91	94-11-518-25	102	99	103
94-11-518-16	100	108	102	94-11-518-26	98	101	103
94-11-518-17	104	109	85	94-11-518-27	105	101	100
94-11-518-18	104	107	100	94-11-518-28	102	105	105
94-11-518-19	100	104	106	94-11-518-29	105	101	101
94-11-518-20	102	101	106				
94-11-518-21	99	101	103				

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: _____ on 12/02/1994.

William H. Christensen
Deliverables Manager

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(030)

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1000 ORTEGA WAY, SUITE A
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☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): Anand Helekar

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC TUBE	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
1	E-14@5'	12/1/94	0720		/	Soil Sample		/				/		/									1
2	E-14@10'	"	0735		/	" "		/				/		/									1
3	E-14@15'	"	0745		/	" "		/				/		/									1
4	E-14@20'	"	0755		/	" "		/				/		/									1
5	E-14@25'	"	0810		/	" "		/				/		/									1
6	E-14@30'	"	0830		/	" "		/				/		/									1
7	E-14@35'	"	0845		/	" "		/				/		/									1

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
Anand Helekar	12/1/94 16:15				

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: CalScience

DATE/TIME: 12/1/94 1615

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FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): Anand Helekar

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
8	E-14 @ 40'	12/1/94	0920		/	Soil Sample		/				/		/									1
9	E-14 @ 45'	12/1/94	0950		/	"		/				/		/									1
10	E-15 @ 5'	"	1015		/	"		/				/		/									1
11	E-15 @ 10'	"	1030		/	"		/				/		/									1
12	E-15 @ 15'	"	1040		/	"		/				/		/									1
13	E-15 @ 20'	"	1055		/	"		/				/		/									1
14	E-15 @ 25'	"	1120		/	"		/				/		/									1
																						TOTAL NUMBER OF CONTAINERS	

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
Anand Helekar	12/1/94 16:15				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR LAB: (Signature/Name)

LAB: CalScience

DATE/TIME: 12/1/94 1615

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SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.	PROJECT NAME
1576	11630-11700 Burke Street Santa Fe Springs, CA

SAMPLER (Signature with Printed Name)
Anand Vaidya
Anand Helekar

PROJECT MANAGER
Ed Leonhardt

REMARKS
Call Chris d'Sa @ ext. 233 at EAI if any questions

	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/ SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS	REMARKS
15	E-15 @ 30'	12/1/94	1140		/	Soil Sample		/				/		/									1	
16	E-15 @ 35'	"	1205		/	"		/				/		/									1	
17	E-15 @ 40'	"	1300		/	"		/				/		/									1	
18	E-16 @ 5'	"	1345		/	"		/				/		/									1	
19	E-16 @ 10'	"	1355		/	"		/				/		/									1	
20	E-17 @ 5'	"	1405		/	"		/				/		/									1	
21	E-17 @ 10'	"	1415		/	"		/				/		/									1	
																						TOTAL NUMBER OF CONTAINERS		

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
Anand Vaidya	12/1/94 16:15				
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)
AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR LAB BY: (Signature/Name)
LAB: CalScience

DATE/TIME: 12/1/94 1615

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FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☒ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☐ NORMAL ☒

PROJECT NO.: 1576

PROJECT NAME: 11630-11700 Burke Street, Santa Fe Springs, CA

SAMPLER (Signature with Printed Name): Anand Helekar / Anand Helekar

PROJECT MANAGER: Ed Leonhardt

REMARKS: Call Chris d'Sa @ ext. 233 at EAI if any questions

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 8020	VOC 8240	EOC 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 8010	ORGNC PESTICIDES 8080	BENZENE	TOTAL LEAD ICP- 6010	NUMBER OF CONTAINERS
22 E-17@15'	12/1/94	1420		/	Soil Sample		/				/		/									1
23 E-17@20'	"	1430		/	"		/				/		/									1
				/																		
24 E-18@45				/																		
				/																		
				/																		
				/																		

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)
RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)	RELINQUISHED BY: (Signature/Name)	DATE/TIME	RECEIVED BY: (Signature/Name)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
HAND ☒ AIRFREIGHT ☐ _____ ☐

SHIPPED BY: (Signature/Name)

AIRBILL #:

COURIER: (Signature/Name)

RECEIVED FOR BY: (Signature/Name)

LAB: CalScience

DATE/TIME: 12/1/94 1615

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

RECEIVED
DEC 12 1994
ENVIRONMENTAL AUDIT

Environmental Audit, Inc.	Date Sampled:	12/01/94
1000-A Ortega Way	Date Received:	12/01/94
Placentia, CA 92670-7125	Date Extracted:	12/05/94
	Date Analyzed:	12/05/94
	Work Order No.:	94-12-030
Attn: Ed Leonhardt	Method:	EPA 418.1
RE: 11630-11700 Burke Street/1576	Page 1 of 2	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-14@5'	23	5
E-14@10'	16	5
E-14@15'	16	5
E-14@20'	11	5
E-14@25'	23	5
E-14@30'	18	5
E-14@35'	18	5
E-14@40'	25	5
E-14@45'	23	5
E-15@5'	13	5
E-15@10'	16	5
E-15@15'	13	5
E-15@20'	ND	5
E-15@25'	18	5
E-15@30'	9	5
E-15@35'	ND	5
E-15@40'	6	5
E-16@5'	16	5
E-16@10'	9	5
E-17@5'	9	5

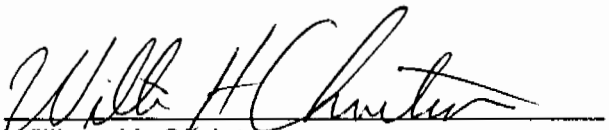
Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	12/01/94
1000-A Ortega Way	Date Received:	12/01/94
Placentia, CA 92670-7125	Date Extracted:	12/05/94
	Date Analyzed:	12/05/94
	Work Order No.:	94-12-030
Attn: Ed Leonhardt	Method:	EPA 418.1
RE: 11630-11700 Burke Street/1576	Page 2 of 2	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/kg (ppm).

Sample Number	Concentration	Reportable Limit
E-17@10'	13	5
E-17@15'	6	5
E-17@20'	98	5
E-15@45'	ND	5
Method Blank #1	ND	5
Method Blank #2	ND	5

Reviewed and Approved  on 12/08/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 1 of 26	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@5'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 2 of 26	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@10'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 12/01/94
1000-A Ortega Way	Date Received: 12/01/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 12/02-03/94
	Work Order No.: 94-12-030
Attn: Ed Leonhardt	Method: EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@15'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@20'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@25'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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ANALYTICAL REPORT

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Placentia, CA 92670-7125		Date Extracted:	P/T
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@30'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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Environmental Audit, Inc.		Date Sampled:	12/01/94
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Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@35'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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Environmental Audit, Inc.		Date Sampled:	12/01/94
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Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@40'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 12/01/94
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Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-14@45'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

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1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@5'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@10'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
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		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@15'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@20'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@25'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
RE: 11630-11700 Burke Street/1576		Page 15 of 26	

All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@30'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@35'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@40'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-16@5'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-16@10'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

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ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-17@5'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled: 12/01/94
1000-A Ortega Way	Date Received: 12/01/94
Placentia, CA 92670-7125	Date Extracted: P/T
	Date Analyzed: 12/02-03/94
	Work Order No.: 94-12-030
Attn: Ed Leonhardt	Method: EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-17@10'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-17@15'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
		Work Order No.:	94-12-030
Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-17@20'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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Attn: Ed Leonhardt		Method:	EPA 8240A
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All concentrations are reported in µg/kg (ppb).

Sample Number: E-15@45'

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank #1

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	12/01/94
1000-A Ortega Way		Date Received:	12/01/94
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	12/02-03/94
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Attn: Ed Leonhardt		Method:	EPA 8240A
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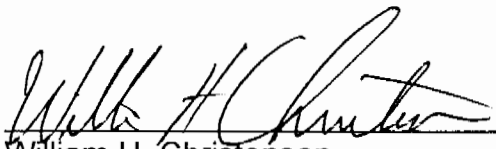
All concentrations are reported in µg/kg (ppb).

Sample Number: Method Blank #2

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	25	1,1-Dichloroethene	ND	5
Benzene	ND	5	Trans-1,2-Dichloroethene	ND	5
Bromodichloromethane	ND	5	1,2-Dichloropropane	ND	5
Bromoform	ND	5	Cis-1,3-Dichloropropene	ND	5
Bromomethane	ND	10	Trans-1,3-Dichloropropene	ND	5
2-Butanone	ND	25	Ethylbenzene	ND	5
Carbon Disulfide	ND	25	2-Hexanone	ND	25
Carbon Tetrachloride	ND	5	Methylene Chloride	ND	10
Chlorobenzene	ND	5	4-Methyl-2-Pentanone	ND	25
Chloroethane	ND	5	Styrene	ND	25
2-Chloroethyl Vinyl Ether	ND	5	1,1,2,2-Tetrachloroethane	ND	5
Chloroform	ND	5	Tetrachloroethene	ND	5
Chloromethane	ND	10	Toluene	ND	5
1,3-Dichlorobenzene	ND	5	1,1,1-Trichloroethane	ND	5
1,4-Dichlorobenzene	ND	5	1,1,2-Trichloroethane	ND	5
1,2-Dichlorobenzene	ND	5	Trichloroethene	ND	5
Dibromochloromethane	ND	5	Trichlorofluoromethane	ND	10
Dichlorodifluoromethane	ND	10	Vinyl Acetate	ND	25
1,1-Dichloroethane	ND	5	Vinyl Chloride	ND	10
1,2-Dichloroethane	ND	5	Total Xylenes	ND	10

Reviewed and Approved  on 12/08/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Environmental Audit, Inc.		Work Order No.:	94-12-030
Page 1 of 1		Date Analyzed:	12/06/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-15@35'

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	115	129	55 - 135	14	0 - 30

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-15@45'

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	125	125	55 - 135	0	0 - 30

Reviewed and approved: _____ on 12/08/1994.

William H. Christensen
Deliverables Manager

11631 Seaboard Circle, Stanton, CA 90680 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8240A

Environmental Audit, Inc.		Work Order No.:	94-12-030
Page 1 of 1		Date Analyzed:	12/03/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-17@20'

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	101	99	37 - 151	2	0 - 25
Chlorobenzene	96	96	37 - 160	0	0 - 25
Toluene	100	97	47 - 150	3	0 - 25
1,1-Dichloroethene	104	99	59 - 155	5	0 - 25
Trichloroethene	96	97	71 - 157	1	0 - 25

Surrogate Recoveries (in %)

	S1	S2	S3
94-12-030-21	104	97	102
94-12-030-22	100	101	104
94-12-030-23	103	99	99
94-12-030-24	100	102	102

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: _____ on 12/20/1994.

William H. Christensen
Deliverables Manager

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8240A

Environmental Audit, Inc. | Work Order No.: 94-12-030
Page 1 of 1 | Date Analyzed: 12/03/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: E-17@5'

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	102	105	37 - 151	3	0 - 25
Chlorobenzene	98	101	37 - 160	3	0 - 25
Toluene	102	113	47 - 150	8	0 - 25
1,1-Dichloroethene	100	104	59 - 155	4	0 - 25
Trichloroethene	104	103	71 - 157	1	0 - 25

Surrogate Recoveries (in %)

	S1	S2	S3		S1	S2	S3
94-12-030-1	103	100	106	94-12-030-11	103	101	101
94-12-030-2	103	98	106	94-12-030-12	104	100	100
94-12-030-3	99	98	102	94-12-030-13	102	98	102
94-12-030-4	96	99	105	94-12-030-14	102	98	101
94-12-030-5	99	99	106	94-12-030-15	104	97	104
94-12-030-6	100	99	103	94-12-030-16	104	98	102
94-12-030-7	99	100	107	94-12-030-17	102	100	103
94-12-030-8	103	102	100	94-12-030-18	104	96	104
94-12-030-9	103	99	103	94-12-030-19	99	102	102
94-12-030-10	101	99	98	94-12-030-20	102	101	100

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: William H. Christensen on 12/08/1994.

William H. Christensen
Deliverables Manager

11631 Seaboard Circle, Stanton, CA 90680 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

RECEIVED
DEC 17 1994
ENVIRONMENTAL AUDIT

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/30/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	12/08/94
	Date Analyzed:	12/09/94
	Work Order No.:	94-11-518
Attn: Ed Leonhardt	Method: EPA 8015M with Carbon Chain	
RE: 11630-11700 Burke Street/1576	Page 1 of 2	

All concentrations are reported in mg/kg (ppm).

Analyte	Concentration	Reportable Limit
Sample Number: E-9@15-16'		
C7	ND	100
C8	ND	100
C9-C10	166	100
C11-C12	160	100
C13-C14	366	100
C15-C16	1230	100
C17-C18	4260	100
C19-C20	7020	100
C21-C22	5890	100
C23-C24	4910	100
C25-C28	4700	100
C29-C32	2210	100
C33-C36	ND	100

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	11/30/94
1000-A Ortega Way	Date Received:	11/30/94
Placentia, CA 92670-7125	Date Extracted:	12/08/94
	Date Analyzed:	12/08/94
	Work Order No.:	94-11-518
Attn: Ed Leonhardt	Method: EPA 8015M with Carbon Chain	
RE: 11630-11700 Burke Street/1576	Page 2 of 2	

All concentrations are reported in mg/kg (ppm).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
C7	ND	10
C8	ND	10
C9-C10	ND	10
C11-C12	ND	10
C13-C14	ND	10
C15-C16	ND	10
C17-C18	ND	10
C19-C20	ND	10
C21-C22	ND	10
C23-C24	ND	10
C25-C28	ND	10
C29-C32	ND	10
C33-C36	ND	10

Reviewed and Approved William H. Christensen on 12/13/1994

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M-with Carbon Chain

Environmental Audit, Inc.		Work Order No.:	94-11-518
Page 1 of 1		Date Analyzed:	12/09/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 94-12-155-13

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Petroleum Hydrocarbons	91	91	55 - 135	0	0 - 30

Reviewed and approved: _____ on 12/13/1994.

William H. Christensen
Deliverables Manager

11631 Seaboard Circle, Stanton, CA 90680 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	12/01/94
1000-A Ortega Way	Date Received:	12/01/94
Placentia, CA 92670-7125	Date Extracted:	12/08/94
	Date Analyzed:	12/09/94
	Work Order No.:	94-12-030
Attn: Ed Leonhardt	Method: EPA 8015M with Carbon Chain	
RE: 11630-11700 Burke Street/1576	Page 1 of 2	

All concentrations are reported in mg/kg (ppm).

Analyte	Concentration	Reportable Limit
Sample Number: E-17@20'		
C7	ND	10
C8	ND	10
C9-C10	ND	10
C11-C12	ND	10
C13-C14	ND	10
C15-C16	ND	10
C17-C18	ND	10
C19-C20	ND	10
C21-C22	ND	10
C23-C24	ND	10
C25-C28	ND	10
C29-C32	ND	10
C33-C36	ND	10

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Environmental Audit, Inc.	Date Sampled:	12/01/94
1000-A Ortega Way	Date Received:	12/01/94
Placentia, CA 92670-7125	Date Extracted:	12/08/94
	Date Analyzed:	12/08/94
	Work Order No.:	94-12-030
Attn: Ed Leonhardt	Method: EPA 8015M with Carbon Chain	
RE: 11630-11700 Burke Street/1576	Page 2 of 2	

All concentrations are reported in mg/kg (ppm).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
C7	ND	10
C8	ND	10
C9-C10	ND	10
C11-C12	ND	10
C13-C14	ND	10
C15-C16	ND	10
C17-C18	ND	10
C19-C20	ND	10
C21-C22	ND	10
C23-C24	ND	10
C25-C28	ND	10
C29-C32	ND	10
C33-C36	ND	10

Reviewed and Approved William H. Christensen on 12/12/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method EPA 8015M-with Carbon Chain

Environmental Audit, Inc.		Work Order No.:	94-12-030
Page 1 of 1		Date Analyzed:	12/09/94

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 94-12-155-13

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Total Petroleum Hydrocarbons	91	91	55 - 135	0	0 - 30

Reviewed and approved: William H. Christensen on 12/12/1994.

William H. Christensen
Deliverables Manager

060

PAGE 1 of 1

Environmental Audit, Inc.

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

Chain of Custody Record

SAMPLING REQUIREMENTS: RCRA ☐ NPDES ☐ SDWA ☐ _____ ☐

WRITTEN QC REPORT
ROUTINE QC ☒
RWQCB QC ☐

TURNAROUND TIME:
SAME DAY ☐ 24hr ☐ 48hr ☒ NORMAL ☐

PROJECT NO.: 1576

PROJECT NAME: BURKE STREET

SAMPLER: (Signature) ART FONSECA

PROJECT MANAGER: STEVE ERLICHT

SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION	CONTR TYPE: GLASS	PLASTIC	BRASS/SS TUBE	ANALYSES REQUESTED: TPH-D 8015M	TPH-G 8015M	TRPH 418.1	BTEX 602 8020	VOC 624 8240	EOC 625 8270	OIL & GREASE	CAM METALS TOT WET	LEAD	HVOC 601 8010	NUMBER OF CONTAINERS	REMARKS
MW-1	10/5/95	12:15		✓	GROUND WATER	✓					✓		✓			✓	✓		4	Call at EAI if any questions

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Arthur S. Fonseca	10/5/95 1:25				
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

SAMPLES SHIPPED VIA:
FEDEX ☐ UPS ☐ AIRBORNE ☐
BUS ☐ HAND ☐ _____ ☐

SHIPPED BY: (Signature)

COURIER: (Signature)

RECEIVED FOR BY: (Signature)
LAB:

DATE/TIME: 10/5/95 1:25

EAI Rev 8/99 C-O-C.PMB

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Environmental Audit, Inc.
1000-A Ortega Way
Placentia, CA 92670-7125

RECEIVED
OCT 12 1995
ENVIRONMENTAL AUDIT

Attn: Steve Bright
RE: 1576/Burke Street

Date Sampled:	10/05/95
Date Received:	10/05/95
Date Extracted:	10/05/95
Date Analyzed:	10/06/95
Work Order No.:	95-10-060
Method:	EPA 418.1
Page 1 of 1	

All total recoverable petroleum hydrocarbon concentrations are reported in mg/L (ppm).

Sample Number	Concentration	Reportable Limit
MW-1	ND	0.5
Method Blank	ND	0.5

Reviewed and Approved William H. Christensen on 10/09/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Environmental Audit, Inc.
1000-A Ortega Way
Placentia, CA 92670-7125

Date Sampled: 10/05/95
Date Received: 10/05/95
Date Digested: 10/05/95
Date Analyzed: 10/06/95
Work Order No.: 95-10-060

Attn: Steve Bright
RE: 1576/Burke Street

All concentrations are reported in mg/L (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: MW-1

Analyte	Method	Concentration	Reportable Limit
Antimony	EPA 200.7	ND	0.1
Arsenic	EPA 200.7	ND	0.1
Barium	EPA 200.7	0.38	0.02
Beryllium	EPA 200.7	ND	0.01
Cadmium	EPA 200.7	ND	0.02
Chromium	EPA 200.7	0.06	0.03
Cobalt	EPA 200.7	ND	0.03
Copper	EPA 200.7	ND	0.05
Lead	EPA 200.7	ND	0.12
Mercury	EPA 245.1	ND	0.0005
Molybdenum	EPA 200.7	ND	0.05
Nickel	EPA 200.7	ND	0.04
Selenium	EPA 200.7	ND	0.1
Silver	EPA 200.7	ND	0.02
Thallium	EPA 200.7	ND	0.16
Vanadium	EPA 200.7	0.07	0.03
Zinc	EPA 200.7	0.09	0.03

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Environmental Audit, Inc.
1000-A Ortega Way
Placentia, CA 92670-7125

Date Sampled: 10/05/95
Date Received: 10/05/95
Date Digested: 10/05/95
Date Analyzed: 10/06/95
Work Order No.: 95-10-060

Attn: Steve Bright
RE: 1576/Burke Street

All concentrations are reported in mg/L (ppm). Analyses for Title 22 metals were conducted on a total digestion.

Sample Number: Method Blank

Analyte	Method	Concentration	Reportable Limit
Antimony	EPA 200.7	ND	0.1
Arsenic	EPA 200.7	ND	0.1
Barium	EPA 200.7	ND	0.02
Beryllium	EPA 200.7	ND	0.01
Cadmium	EPA 200.7	ND	0.02
Chromium	EPA 200.7	ND	0.03
Cobalt	EPA 200.7	ND	0.03
Copper	EPA 200.7	ND	0.05
Lead	EPA 200.7	ND	0.12
Mercury	EPA 245.1	ND	0.0005
Molybdenum	EPA 200.7	ND	0.05
Nickel	EPA 200.7	ND	0.04
Selenium	EPA 200.7	ND	0.1
Silver	EPA 200.7	ND	0.02
Thallium	EPA 200.7	ND	0.16
Vanadium	EPA 200.7	ND	0.03
Zinc	EPA 200.7	ND	0.03

Reviewed and Approved William H. Christensen on 10/06/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	10/05/95
1000-A Ortega Way		Date Received:	10/05/95
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	10/06/95
		Work Order No.:	95-10-060
Attn: Steve Bright		Method:	EPA 624
RE: 1576/Burke Street		Page 1 of 2	

All concentrations are reported in µg/L (ppb).

Sample Number: MW-1

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	5	Cis-1,2-Dichloroethene	ND	1
Benzene	ND	1	Trans-1,2-Dichloroethene	ND	1
Bromodichloromethane	ND	1	1,2-Dichloropropane	ND	1
Bromoform	ND	1	Cis-1,3-Dichloropropene	ND	1
Bromomethane	ND	2	Trans-1,3-Dichloropropene	ND	1
2-Butanone	ND	5	Ethylbenzene	ND	1
Carbon Disulfide	ND	5	2-Hexanone	ND	5
Carbon Tetrachloride	ND	1	Methylene Chloride	ND	2
Chlorobenzene	ND	1	4-Methyl-2-Pentanone	ND	5
Chloroethane	ND	1	Styrene	ND	5
2-Chloroethyl Vinyl Ether	ND	1	1,1,2,2-Tetrachloroethane	ND	1
Chloroform	1.9	1	Tetrachloroethene	158	1
Chloromethane	ND	2	Toluene	ND	1
1,3-Dichlorobenzene	ND	1	1,1,1-Trichloroethane	1.4	1
1,4-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	1
1,2-Dichlorobenzene	ND	1	Trichloroethene	7.4	1
Dibromochloromethane	ND	1	Trichlorofluoromethane	ND	2
Dichlorodifluoromethane	ND	2	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	1	Vinyl Chloride	ND	2
1,2-Dichloroethane	ND	1	Total Xylenes	ND	2
1,1-Dichloroethene	2.2	1			

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Environmental Audit, Inc.		Date Sampled:	10/05/95
1000-A Ortega Way		Date Received:	10/05/95
Placentia, CA 92670-7125		Date Extracted:	P/T
		Date Analyzed:	10/05/95
		Work Order No.:	95-10-060
Attn: Steve Bright		Method:	EPA 624
RE: 1576/Burke Street		Page 2 of 2	

All concentrations are reported in µg/L (ppb).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Acetone	ND	5	Cis-1,2-Dichloroethene	ND	1
Benzene	ND	1	Trans-1,2-Dichloroethene	ND	1
Bromodichloromethane	ND	1	1,2-Dichloropropane	ND	1
Bromoform	ND	1	Cis-1,3-Dichloropropene	ND	1
Bromomethane	ND	2	Trans-1,3-Dichloropropene	ND	1
2-Butanone	ND	5	Ethylbenzene	ND	1
Carbon Disulfide	ND	5	2-Hexanone	ND	5
Carbon Tetrachloride	ND	1	Methylene Chloride	ND	2
Chlorobenzene	ND	1	4-Methyl-2-Pentanone	ND	5
Chloroethane	ND	1	Styrene	ND	5
2-Chloroethyl Vinyl Ether	ND	1	1,1,2,2-Tetrachloroethane	ND	1
Chloroform	ND	1	Tetrachloroethene	ND	1
Chloromethane	ND	2	Toluene	ND	1
1,3-Dichlorobenzene	ND	1	1,1,1-Trichloroethane	ND	1
1,4-Dichlorobenzene	ND	1	1,1,2-Trichloroethane	ND	1
1,2-Dichlorobenzene	ND	1	Trichloroethene	ND	1
Dibromochloromethane	ND	1	Trichlorofluoromethane	ND	2
Dichlorodifluoromethane	ND	2	Vinyl Acetate	ND	5
1,1-Dichloroethane	ND	1	Vinyl Chloride	ND	2
1,2-Dichloroethane	ND	1	Total Xylenes	ND	2
1,1-Dichloroethene	ND	1			

Reviewed and Approved  on 10/07/1995

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

Calscience Environmental Laboratories, Inc.

ACCREDITED

QUALITY ASSURANCE SUMMARY

Method EPA 418.1

Environmental Audit, Inc.		Work Order No.:	95-10-060
Page 1 of 1		Date Analyzed:	10/06/95

Blank Spike/Blank Spike Duplicate

Sample Spiked: Method Blank

Analyte	BS%REC	BSD%REC	Control Limits	%RPD	Control Limits
Total Recoverable Petroleum Hydrocarbons	92	88	55 - 135	4	0 - 30

Reviewed and approved: _____ on 10/09/1995.

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ACCREDITED

QUALITY ASSURANCE SUMMARY

ICP / GF Metals (Aqueous)

Environmental Audit, Inc.		Work Order No.:	95-10-060
Page 1 of 1		Date Analyzed:	10/06/95

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: MW-1

Analyte	Method	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Beryllium	EPA 200.7	84	85	80 - 120	1	0 - 20
Chromium	EPA 200.7	90	91	80 - 120	1	0 - 20
Copper	EPA 200.7	93	95	80 - 120	2	0 - 20
Lead	EPA 200.7	89	89	80 - 120	0	0 - 20
Mercury	EPA 245.1	108	109	50 - 130	1	0 - 30
Nickel	EPA 200.7	89	89	80 - 120	0	0 - 20

Reviewed and approved: William H. Christensen on 10/09/1995.

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ACCREDITED

QUALITY ASSURANCE SUMMARY

Method EPA 624

Environmental Audit, Inc.		Work Order No.:	95-10-060
Page 1 of 1		Date Analyzed:	10/05/95

Matrix Spike/Matrix Spike Duplicate

Sample Spiked: 95-09-423-2

Analyte	MS%REC	MSD%REC	Control Limits	%RPD	Control Limits
Benzene	118	110	37 - 151	7	0 - 25
Chlorobenzene	100	97	37 - 160	3	0 - 25
Toluene	99	97	47 - 150	2	0 - 25
1,1-Dichloroethene	102	97	59 - 155	5	0 - 25
Trichloroethene	103	102	71 - 157	1	0 - 25

Surrogate Recoveries (in %)

Sample Number	S1	S2	S3
MW-1	100	102	98

	Water %REC Acceptable Limits	Soil %REC Acceptable Limits
S1 > 1,2-Dichloroethane-d4	76 - 114	70 - 121
S2 > Toluene-d8	88 - 110	81 - 117
S3 > 1,4-Bromofluorobenzene	86 - 115	74 - 121

Reviewed and approved: _____ on 10/09/1995.

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

APPENDIX D: Well Construction Permit

ENVIRONMENTAL AUDIT, INC.®

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

714/632-8521 • FAX: 714/632-6754

November 6, 1995

Project No. 1576

County of Los Angeles
Department of Health Services
2525 Corporate Place
Monterey Park, CA 91754

FILE COPY

Attention: Mr. Al Bragg

RE: NEW MONITORING WELL OWNER
11700 Burke Street
Santa Fe Springs, California

Dear Mr. Bragg:

Enclosed herewith is an approved well permit for one monitoring well at the above referenced site. Please note that the well owner has changed from Mr. William Palley to Mr. Larry Patsouras, 11700 Burke Street, Santa Fe Springs, California. Please call me at 714/632-8521 extension 227 or Steve Bright at extension 224 if you have any questions or need additional information.

Sincerely,

ENVIRONMENTAL AUDIT, INC.

Anand S. Helekar
Project Engineer

AH:SAB:sh

enclosure: Approved Permit Application

AH:WORD 1576WP2.DOC

APPLICATION FOR WELL PERMIT
ENVIRONMENTAL HEALTH 2525 Corporate Place Monterey Park, Ca 91754
COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES

DATE 10/03/94

DESCRIPTION

TYPE OF PERMIT (CHECK)

- [x] NEW WELL CONSTRUCTION
- [ ] RECONSTRUCTION OR RENOVATION
- [ ] DESTRUCTION

TYPE OF WELL

- [ ] PRIVATE DOMESTIC
- [ ] PUBLIC DOMESTIC
- [ ] IRRIGATION
- [ ] OBSERVATION/MONITORING
- [ ] CATHODIC
- [ ] INDUSTRIAL
- [ ] GRAVEL PACK
- [ ] TEST

TYPE OF CASING
2-inch inside diameter flush threaded schedule 40 PVC

METHOD OF SEALING OF CASING
Bentonite and concrete sanitary seal (see attached figure)

METHOD OF DESTRUCTION

LOCATION

ADDRESS (NUMBER, STREET, AND NEAREST INTERSECTION)
11700 Burke Street @ Norwalk Boulevard

CITY
Santa Fe Springs

DIAGRAM (SHOW PROPERTY LINES, STREET, ADDRESS, WELL SITE, SEWERS, AND PRIVATE SEWAGE DISPOSAL SYSTEMS ALONG WITH LABELS AND DIMENSIONS)

One (1) proposed ground water monitoring well location (MW-1).

See attached figure

RECEIVED
NOV - 2 1995

Permit issued for: 1 (one) monitoring well construction

APPLICANT

NAME OF WELL DRILLER (PRINT)
ABC Liovin Drilling

TRADE NAME
10841 Dale Street

BUSINESS ADDRESS
Stanton, CA 90680-2721

CITY

NAME OF WELL OWNER (PRINT)
William Palley

FX-6: Personal Privacy

I hereby agree to comply in every respect with all regulations of the County Preventive/Public Health Services and with all ordinances and laws of the County of Los Angeles and of the State of California pertaining to well construction, reconstruction and destruction. Upon completion of well and within ten days thereafter, I will furnish the County Preventive/Public Health Services with a complete log of the well, giving date drilled, depth of well, all perforations in casing, and any other data deemed necessary by such County Preventive/Public Health Services.

Applicant's Signature

DISPOSITION OF APPLICATION: (For Sanitarians Use Only)

- [x] APPROVED
- [ ] DENIED
- [ ] APPROVED WITH CONDITIONS

If denied or approved with conditions, report reason or conditions here:

DATE 11-1-95

SANITARIAN

DATE

SECTION CHIEF

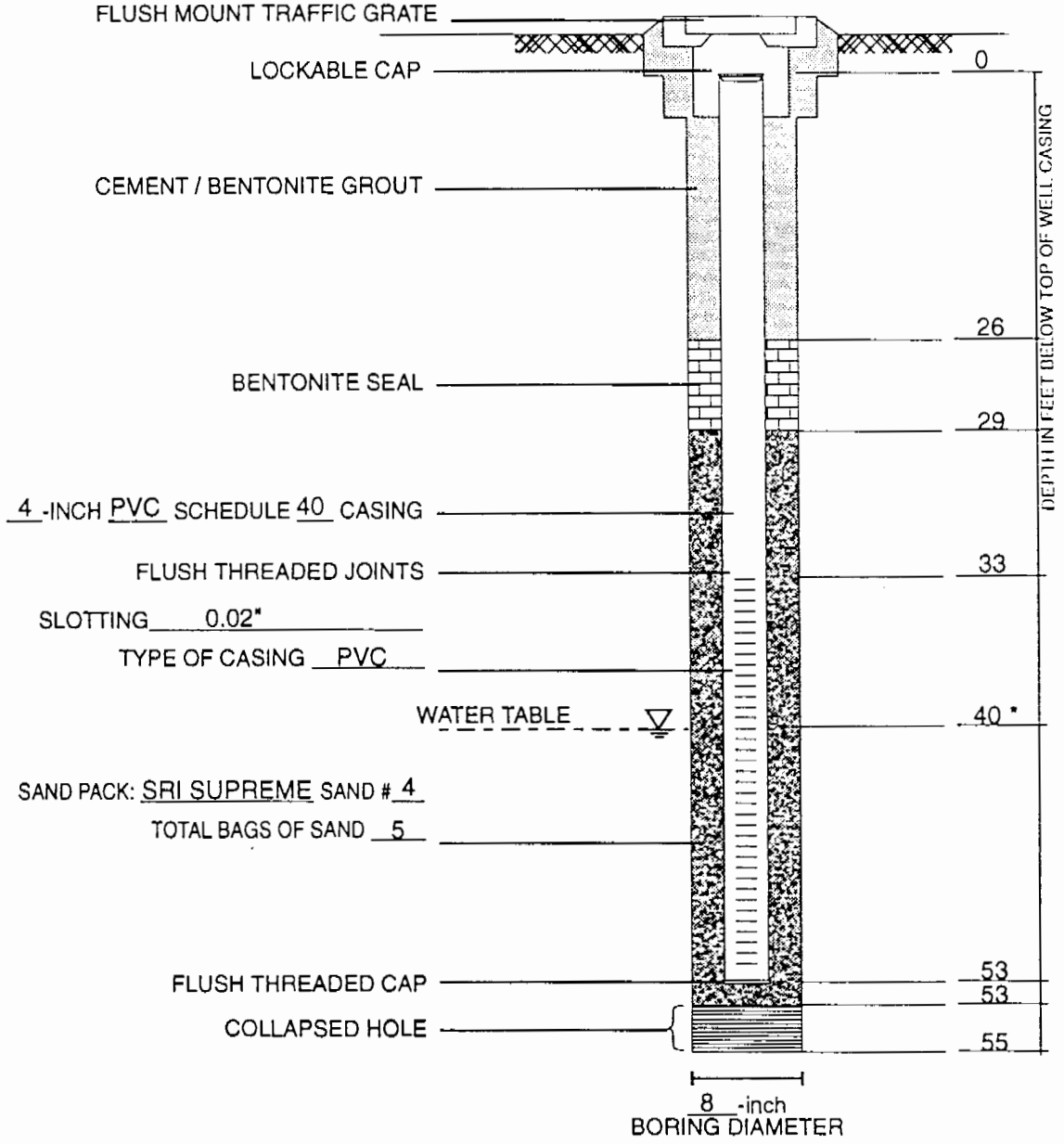
76A669
H-13 (Rev. 3/91) 2/95

Post-it® Fax Note 7671	Date 9-26-95 # of pages ▸ 1
To Anand	From Luce
Co./Dept.	Co.
Phone #	Phone # 213/881-4147
Fax # 714/632-6754	Fax #

RECEIVED
SEP 26 1995
ENVIRONMENTAL AUDIT

TOTAL P.01

APPENDIX E: Well Construction Details



*Ground water was encountered at 40' during drilling.

WELL NO. MW-1
Date Constructed 10/ 03/ 95
Date of Measurements 10/ 03/ 95

ENVIRONMENTAL AUDIT, INC.

MONITORING WELL CONSTRUCTION DETAIL

11700 Burke Street
Santa Fe Spring, California 90670

Project No. 1576

APPENDIX F: Ground Water Sampling Log Form

GROUND WATER Sampling Log

Environmental Audit, Inc.®
Planning, Environmental Analyses and Hazardous Substances Management and Remediation
1000 ORTEGA WAY, SUITE A
PLACENTIA, CA 92670-7125
☎ (714) 632 - 8521
FAX (714) 632 - 6754

DATE:	10/5/95
PROJECT NO.:	1576
CLIENT:	LARRY PATSOURAS
WELL NO.:	MW-1
WELL DIAMETER (INCHES):	2"
SAMPLED BY:	AF

WELL PURGING INFORMATION

ONE CASING VOLUME OF WATER CALCULATED USING THE FOLLOWING:

TOTAL DEPTH OF WELL (ft.)		DEPTH TO WATER LEVEL (ft. bgs)		DEPTH TO FREE PRODUCT (ft. bgs)				
53	—	35.83	→	—	17.17	X 0.16 (WELL VOLUME FACTOR)	=	2.75 (ONE CASING VOLUME OF WATER (GALLONS))

WELL VOLUME FACTORS

WELL CASING ID (inches)	VOLUME FACTOR
2.0	0.16
4.0	0.65
6.0	1.47

PURGE TIME (hrs.): START 11:40 STOP 12:10

METHOD: DOWN HOLE PUMP ☒ DEDICATED PUMP ☐ BAILER ☐ OTHER ☐

TYPE/MODEL: WHALE SUBMERSUB 920

GALLONS PURGED	TEMP (°F)	CONDUCTIVITY (Micro-ohms/cm) x 10^3	pH	TURBIDITY (NTU)	REMARKS
3	81.2	1.40×10^3	9.45	>200	
6	82.8	1.35×10^3	8.71	>200	
9	81.6	1.29×10^3	8.07	>200	
12	80.5	1.27×10^3	7.84	>200	
15	80.3	1.26×10^3	7.69	>200	
18	80.3	1.26×10^3	7.71	120	
21	81.0	1.25×10^3	7.59	50	
24	81.2	1.26×10^3	7.48	37.1	
27	81.5	1.25×10^3	7.47	37.4	
30	81.6	1.25×10^3	7.47	37.9	

WELL SAMPLING INFORMATION

TIME SAMPLED (hrs.): 12:15

METHOD: DOWN HOLE PUMP ☐ DEDICATED PUMP ☐ BAILER ☒ OTHER ☐

TYPE/MODEL: VOS TECHNOLOGY

COMMENTS: DEPTH TO WATER AFTER PURGING 35.9